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CFETP 2A5X3A
Parts I and II
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AFSC 2A5X3A

COMMUNICATION/NAVIGATION /MISSION SYSTEMS

CAREER FIELD EDUCATION AND TRAINING PLAN

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COMM/NAV/MISSION SYSTEMS
AFSC 2A5X3A

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COMM/NAV/MISSION SYSTEMS
AFSC 2A5X3A
CAREER FIELD EDUCATION AND TRAINING PLAN

PART I

PREFACE

1. This Career Field Education and Training Plan (CFETP) is a comprehensive education and training document that identifies life-cycle education/training requirements, training support resources, and minimum core task requirements for this specialty. The CFETP will provide personnel a clear career path to success and instill rigor in all aspects of career field training. To read, review, or print a copy of current CFETP, go to the Aircraft Maintenance Homepage at: **http://www.il.hq.af.mil/ilm/ilmm/acmaint/index.html**. ***NOTE:*** Civilians occupying associated positions will use Part II to support duty position qualification training.

2. The CFETP consists of two parts; supervisors will use both parts of the CFETP to plan, manage, and control training within the career field.
2.1. Part I provides information necessary for overall management of the specialty. Section A explains how everyone will use the plan. Section B identifies career field progression information, duties and responsibilities, training strategies, and career field path. Section C associates each level with specialty qualifications (knowledge, education, training, and other). Section D indicates resource constraints. Some examples are funds, manpower, equipment, facilities. Section E identifies transition training guide requirements to support career field restructures.
2.2. Part II includes the following: Section A identifies the Specialty Training Standard (STS) and includes duties, tasks, and technical references to support training; Air Education and Training Command (AETC) conducted training; wartime course requirements; core tasks; and correspondence course requirements. Section B contains the course objective list and training standards supervisors use to determine if airmen satisfied training requirements. Section C identifies available support materials. An example is a Qualification Training Package (QTP) developed to support proficiency training. These QTP packages are identified in AFIND8, *Numerical Index of Specialized Educational Training Publications.* Section D identifies a training course index supervisors use to determine resources available to support training; included here are both mandatory and optional courses. Section E identifies MAJCOM unique training requirements supervisors use to determine additional training requirements unique to the MAJCOM.

3. Using guidance provided in the CFETP will ensure individuals in this specialty receive effective and efficient training at the appropriate point in their career. This plan will enable us to train today's work force for tomorrow's jobs. At unit level, supervisors and trainers will use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

ABBREVIATIONS/TERMS EXPLAINED

Advanced Training (AT). Formal course which provides individuals who are qualified in one or more positions of their Air Force Specialty (AFS) with additional skills/knowledge to enhance their expertise in the career field. Training is for selected career airmen at the advanced level of the AFS.

Air Force Job Qualification Standard (AFJQS). A comprehensive task list which describes a particular job type or duty position. They are used by supervisors to document task qualifications. The tasks on AFJQS are common to all persons serving in the described duty position.

Career Field Education and Training Plan (CFETP). A CFETP is a comprehensive, multipurpose document covering the entire spectrum of education and training for a career field. It outlines a logical growth plan that includes training resources and is designed to make career field training identifiable, to eliminate duplication, and to ensure this training is budget defensible.

Certification. A formal indication of an individual's ability to perform a task to required standards.

Certification Official. A person the commander assigns to determine an individual's ability to perform a task to required standards.

Continuation Training. Additional training exceeding requirements with emphasis on present or future duty assignments.

Core Task. A task Air Force Career Field Managers (AFCFMs) identify as a minimum qualification requirement within an Air Force Specialty regardless of duty position. Core tasks identified with an *R are optional for AFRC and ANG.

Course Objective List (COL). A publication identifying the tasks and knowledge requirements, and respective standards provided to achieve a 3-, 5-, and 7-skill level in this career field. Supervisors use the COL to assist in conducting graduate evaluations in accordance with AFI 36-2201, *Developing, Managing and Conducting Military Training Programs.*

Enlisted Specialty Training (EST). A mix of formal training (technical school) and informal training (on-the-job) to qualify and upgrade airmen in each skill level of a specialty.

Exportable Training. Additional training via computer assisted, paper text, interactive video, or other necessary means to supplement training.

Field Technical Training (Type 4). Special or regular on-site training conducted by a training detachment (TD) or by a mobile training team (MTT).

Initial Skills Training. A formal resident course which results in award of a 3-skill level AFSC.

Instructional System Development (ISD). A deliberate and orderly process for developing, validating, and reviewing instructional programs that ensures personnel are taught the knowledge and skills essential for successful job performance.

Mission Ready Technician. A formal course which results in an airman receiving hands-on training and task certification of selected tasks so the individual will be immediately productive upon arrival at their first duty section.

Occupational Survey Report (OSR). A detailed report showing the results of an occupational survey of tasks performed within a particular AFS.

On-the-Job Training (OJT). Hands-on, over-the-shoulder training at the duty location used to certify personnel for both skill level upgrade and duty position qualification.

Qualification Training (QT). Actual hands-on task performance training designed to qualify an airman in a specific duty position. This training occurs both during and after the upgrade training process. It is designed to provide the performance skill/knowledge training required to do the job.

Qualification Training Package (QTP). An instructional package designed for use at the unit to qualify, or aid qualification, in a duty position or program, or on a piece of equipment. It may be printed, computer-based, or in other audiovisual media.

Resource Constraints. Resource deficiencies, such as money, facilities, time, manpower, and equipment that preclude desired training from being accomplished.

Specialized Training Package and COMSEC Qualification Training Package. A composite of lesson plans, test material, instructions, policy, doctrine, and procedures necessary to conduct training. These packages are prepared by AETC, approved by National Security Agency (NSA), and administered by qualified communications security (COMSEC) maintenance personnel.

Specialty Training Standard (STS). An Air Force publication that describes an Air Force Specialty in terms of tasks and knowledge an airman may be expected to perform or to know on the job. It serves as a contract between the Air Education and Training Command and the functional user to show which of the overall training requirements for an Air Force Specialty Code are taught in formal schools, career development courses, and exportable courses.

Training Impact Decision System (TIDES). A computer-based decision support technology being designed to assist AFCFMs in making critical judgments relevant to what training should be provided personnel within career fields, when training should be provided (at what career points), and where training should be conducted (training setting).

Upgrade Training (UGT). A mixture of mandatory courses, task qualification, QTPs, and CDCs required for award of the 3-, 5-, 7-, or 9-skill levels.

Utilization and Training Workshop (U&TW). A forum of MAJCOM Air Force Specialty Code (AFSC) Functional Managers, Subject Matter Experts (SMEs), and AETC training personnel that determines career ladder training requirements.

SECTION A - GENERAL INFORMATION

1. Purpose: This CFETP provides the information necessary for Air Force Career Field Manager (AFCFM), MAJCOM Functional Managers (MFMs), commanders, training managers, supervisors, and trainers to plan, develop, manage, and conduct an effective career field training program. This plan outlines the training that individuals in AFSC 2A5X3A should receive to develop and progress throughout their career. This CFETP identifies initial skills, upgrade, qualification, advanced, and proficiency training. Initial skills training is the AFS specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. This training is conducted by AETC at Sheppard AFB TX. Upgrade training identifies the mandatory courses, task qualification requirements, and correspondence course requirements for award of the 3-, 5-, 7-, 9-skill levels. Qualification training is actual hands-on task performance training designed to qualify an airman in a specific duty position. This training program occurs both during and after upgrade training. It is designed to provide the performance skills/knowledge to do the job. Advanced training is formal specialty training used for selected airmen. Proficiency training is additional training, either in-residence or exportable training courses, or on-the-job training, provided to personnel to increase their skills and knowledge beyond the minimum required for upgrade. The CFETP has several purposes, some are:

1.1. Serves as a management tool to plan, manage, conduct, and evaluate a career field's training program. Also, it is used to help supervisors identify training at the appropriate point in an individual's career.

1.2. Identifies tasks and knowledge training requirements for each skill level in the specialty and recommends education/training throughout each phase of an individual's career.

1.3. Lists training courses available in the specialty and identifies sources of training, and the training delivery method.

1.4. Identifies major resource constraints, which impact full implementation of the desired career field training process.

2. Uses: This plan will be used by MFMs and supervisors at all levels to ensure comprehensive and cohesive training programs are available for each individual in the specialty.

2.1. AETC training personnel will develop/revise formal resident, non-resident, Training Detachment (TD), and exportable training based upon requirements established by the users and documented in Part II of the CFETP. They will also work with the AFCFM to develop acquisition strategies for obtaining resources needed to provide identified training.

2.2. MFMs will ensure their training programs complement the CFETP mandatory initial, upgrade, and proficiency requirements. Identified requirements can be satisfied by OJT, resident training, contract training, or exportable courses. MAJCOM developed mandatory training, to support this AFSC, must be identified for inclusion in this plan and must not duplicate other available training resources.

2.3. Each individual will complete the mandatory training requirements specified in this plan. The list of courses in Part II will be used as a reference to support training.

3. Coordination and Approval: The AFCFM is the approving authority. The using MAJCOM representatives and AETC training personnel will identify and coordinate on the career field training requirements. The AETC training manager for AFSC 2A5X3A will initiate an annual review of this document by AETC and MAJCOM AFSC functional managers to ensure currency and accuracy. Using the list of courses in Part II, they will eliminate duplicate training.

SECTION B - CAREER FIELD PROGRESSION AND INFORMATION

4. Specialty Descriptions:

4.1. Specialty Summary (Apprentice-Craftsman): Analyzes malfunctions, inspects, removes, maintains, and installs communication/navigation/mission systems. Performs and supervises avionics maintenance and general aircraft servicing and handling. Related DoD Occupational Subgroup: 198.

4.1.1. Duties and Responsibilities.

4.1.1.1. Communication/Navigation/Mission Systems Apprentice and Journeyman (2A533A/53A). Performs organizational and limited intermediate maintenance to support communication/navigation/mission systems such as offensive radar, controls and displays, Electro-optical Viewing System (EVS), photographic systems, integrated mission computers, communications, Electrical Multiplexing (EMUX), inertial navigation, Doppler systems, and Global Positioning System. Operates equipment to determine condition. Identifies, isolates and repairs malfunctions utilizing hand tools; Support Equipment (SE); Built-In-Test (BIT)/Ground Readiness Test (GRT) functions; and Test, Measurement, and Diagnostic Equipment (TMDE). Traces logic, signal flow, schematic, and wiring diagrams. Inspects, repairs, aligns, calibrates, and functionally checks aircraft Line Replaceable Units (LRUs) and limited Shop Replaceable Units (SRUs). Maintains, inspects, performs preventative maintenance, and repairs SE. Repairs, fabricates, and installs wiring harnesses, interconnecting cables, chassis harness assemblies, antenna/transmission lines, and multiconnector cables. Removes, installs, modifies, aligns, programs, and operates offensive avionic systems and records information on equipment maintenance data collection forms. Enters data into automated systems. Recommends methods to improve equipment performance and maintenance procedures. Handles, labels, and disposes of hazardous materials and waste according to environmental standards.

4.1.1.2. Communication/Navigation/Mission Systems Craftsman (2A573A). Supervises, performs maintenance, and conducts/certifies training in the maintenance of communication/ navigation/mission systems. Analyzes and interprets layout drawings, schematics and on-board/ground-based computerized fault detection systems to diagnose difficult maintenance problems. Identifies maintenance problem areas from maintenance data collection systems and recommends corrective actions. Interprets inspection findings for appropriate corrective action. Evaluates proposed modifications. Interprets maintenance operating instructions and procedures for the communication/navigation/mission systems.

4.2. Specialty Summary Aerospace Maintenance Superintendent (2A590). Plans, organizes, and directs maintenance activities. Establishes production controls and work standards.

4.2.1. Duties and Responsibilities:
4.2.1.1. Analyzes reports on maintaining, installing, removing, and repairing aircraft systems to improve work methods and repair techniques. Plans physical layout of facilities. Provides for spare parts, test equipment, and other resources necessary for aircraft maintenance.
4.2.1.2. Coordinates with supply, operations, and other maintenance activities to improve procedures and resolve problems. Directs and controls the inspection, adjustment, removal, replacement, and calibration of internal and external mounted aircraft equipment.
4.2.1.3. Directs repair of aircraft systems. Establishes and checks inspection procedures. Determines extent and economy of repairs required. Inspects activities to solve maintenance, supply and personnel problems. Analyzes inspection findings and recommended corrective actions.
4.2.1.4. Solves problems and interprets operational and technical directives to ensure quality maintenance to accomplish mission requirements. Determines funding requirements and develops budgets. Advises and briefs commanders and senior staff members on all maintenance related activities. Ensures hazardous materials and waste are handled, stored, and disposed of according to environmental standards.

5. Skill and Career Progression: Adequate training and timely progression from the apprentice to the superintendent skill level play an important role in the Air Force's ability to accomplish its mission. It is essential for everyone involved in training to do their part to plan, develop, manage, and conduct an effective training program. The guidance provided in this part of the CFETP will ensure each individual receives proper training at appropriate points in their career. The following narrative and the AFSC 2A5X3A Enlisted Career Training Flowcharts identify the career skill progression.
5.1. Apprentice (3-level). Upon completion of initial skills training, a trainee will work with a trainer to enhance their knowledge and skills. They will utilize the Career Development Course, Task Qualification Training, and available exportable courses for continued advancement. Once task certified, a trainee may perform the task unsupervised. Apprentices can be considered for appointment as unit trainers after completion of a formal trainer course.
5.2. Journeyman (5-level). Once upgraded to the 5-level, a journeyman will enter into continuation training to broaden their experience base. Journeymen may be assigned job positions such as squadron support, software analysis, quality assurance, and various staff positions. Journeymen should complete available TD courses and MAJCOM specific training. Individuals will attend the Airman Leadership School (ALS) after having 48 months in the Air Force. Journeymen will be considered for appointment as unit trainers after completion of a formal trainer course. They should attend the available Communication/Navigation/Mission Systems advanced technical training courses for the assigned Mission Design Series (MDS). Individuals will use their CDCs to prepare for promotion testing. They should also consider continuing their education toward a Community College of the Air Force (CCAF) degree. Timelines and requirements may vary for ANG and AFRC.
5.3. Craftsman (7-level). A craftsman can expect to fill various supervisory and management positions such as shift leader, element chief, flight/section chief, and task certifier. They can also be assigned to work in staff positions. Craftsmen should take courses to obtain added knowledge in other avionic systems and in resource/personnel management. Continued academic education through CCAF and higher degree programs is highly encouraged. In addition, when promoted to

TSgt, individuals will complete the Noncommissioned Officer Academy. MSgts are eligible to enroll in the Senior NCO Correspondence Course.

5.4. Superintendent (9-level). A 9-level can be expected to fill positions such as flight NCOIC, production supervisor, and various staff NCOIC jobs. Additional training in the areas of budget, manpower, resources, and personnel management should be pursued through continuing education. Individuals promoted to SMSgt will complete the Senior Noncommissioned Officer Academy. Additional higher education and completion of courses outside their career AFSC are also recommended.

6. Training Decisions: The CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the Communication/Navigation/ Mission Systems Career Field. The spectrum includes a strategy for when, where, and how to meet these training requirements. The strategy must ensure we develop affordable training, eliminate duplication, and prevent a fragmented approach to training. The following training decisions were made by MAJCOM Functional Managers and Subject Matter Experts (SMEs) at the career field Utilization and Training Workshop held at Sheppard AFB, 17-21 May 1999.

6.1. Initial Skills:

6.1.1. The MAJCOM representatives decided that assembling solderless connectors, digital multimeter, serial bus analyzer, bonding meters and wire maintenance were to be added to the Electronics Principles Course. To complete their Initial Skills Training, personnel will first satisfactorily complete a mandatory resident course.

6.2. Five-Level Upgrade Training. Students will be required to complete the Basic Offensive Avionics Skills CDC , aircraft (MDS) specific CDC and the 2A452B CDC prior to upgrade. The Specialty Training Standard (STS) was re-accomplished to provide additional training and to identify Air Force directed core tasks for upgrade to the 5-level and the 7-level.

6.3. Seven-Level Upgrade Training. Completion of the new 7-level management CDCs will be mandatory. Logistics Maintenance Management and maintenance accountability will be taught to a "C" level in the formal 7-level course. Scenarios, aircraft generation, and knowledge of training procedures were also added to the formal course.

6.4. Continuation Training. The purpose of the continuation-training program is to provide additional training exceeding minimum upgrade training requirements with emphasis on present and future duty positions. MAJCOMs develop a continuation training program that ensures individuals in the Communication/Navigation/Mission Systems career field receive the necessary training at the appropriate point in their career. The training program will identify both mandatory and optional training requirements.

7. Community College of the Air Force (CCAF) Academic Programs: Enrollment in CCAF occurs upon completion of basic military training. CCAF provides the opportunity to obtain an Associate in Applied Sciences Degree. In addition, CCAF offers the following:

7.1. Occupational Instructor Certification. Upon completion of instructor qualification training, consisting of the Basic Instructor Course (BIC) and supervised practice teaching, CCAF instructors who possess an associates degree or higher may be nominated by their school commander/commandant for certification as an occupational instructor.

7.2 Trade Skill Certification. When a CCAF student separates or retires, a trade skill certification is awarded for the primary occupational specialty. The college uses a competency based assessment process for trade skill certification at one of four proficiency levels; Apprentice, Journeyman, Craftsman/Supervisor, or Master Craftsman/Manager. All are transcribed on the CCAF transcript.

7.3. Degree Requirements. All airmen are automatically entered into the CCAF program. Prior to completing an Associates Degree, the 5-level must be awarded and the following requirements must be met:

	Semester Hours
Technical Education	24
Leadership, Management, and Military Studies	6
Physical Education	4
General Education	15
Program Elective Technical Education; Leadership, Management, and Military Studies; or General Education	15
Total	64

7.3.1. Technical Education (24 Semester Hours). A minimum of 12 semester hours of Technical Core subjects/courses must be applied and the remaining semester hours applied from Technical Core/Technical Elective subjects/courses.

7.3.2. Leadership, Management, and Military Studies (6 Semester Hours). Professional military education and/or civilian management courses.

7.3.3. Physical Education (4 Semester Hours). This requirement is satisfied by completion of Basic Military Training.

7.3.4. General Education (15 Semester Hours). Applicable courses must meet the definition of General Education Requirement (GER) subjects/courses as provided in the CCAF General Catalog.

7.3.5. Program Elective (15 Semester Hours). Satisfied with the applicable Technical Education; Leadership, Management, and Military Studies; or General Education subjects/courses, including natural science courses meeting GER application criteria. Six semester hours of CCAF degree-applicable technical credit otherwise not applicable to this program may be applied. See the CCAF General Catalog for details regarding the Associates of Applied Science for this specialty.

7.4. AETC Instructor Requirements: Additional off-duty education is a personal choice that is encouraged for all. Individuals desiring to become an Air Education and Training Command Instructor should be actively pursuing an associate's degree. It is necessary for instructors to have at least an associate's degree so the Technical School can maintain accreditation through the Southern Association of Colleges and Schools.

8. Career Field Path

8.1. Enlisted Career Path: Table A8.1 identifies career milestones for the 2A5X3X specialty.

Table 8.1 Enlisted Career Path				
Education and Training Requirements	**Grade Requirements**			
	Rank	Average Sew-On	Earliest Sew-On	High Year Of Tenure (HYT)
Basic Military Training School				
Apprentice Technical School (3-Skill Level)	Amn A1C	6 months 16 months		
Upgrade To Journeyman (5-Skill Level) - Minimum 15 months on-the-job training. - Complete all 5-level core tasks on one MDS. - Complete appropriate CDC if/when available.	Amn A1C SrA	6 months 16 months 3 years	28 months	10 Years
Airman Leadership School (ALS) - Must be a SrA with 48 months time in service or be a SSgt Selectee. - Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only).				
Trainer - Qualified and certified to perform the task to be trained. - Have attended the formal trainer's course and appointed in writing by Commander.	**Certifier** - Be at least a 5-skill level SSgt; and qualified and certified to perform the task being certified - Attend formal certifier course and appointed in writing by Commander. - Be a person other than the trainer.			
Upgrade To Craftsman (7-Skill Level) - Minimum rank of SSgt. - Complete all 5- and 7-level core tasks on one MDS. - 18 months OJT. - Complete appropriate CDC if/when available. - Advanced Technical School.	SSgt	7.5 years	3 years	20 Years
Noncommissioned Officer Academy (NCOA) - Must be a TSgt or TSgt Selectee. - Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only).	TSgt MSgt	12.5 years 16 years	5 years 8 years	20 Years 24 Years
USAF Senior NCO Academy (SNCOA) - Must be a SMSgt or SMSgt Selectee. - A percentage of top nonselect (for promotion to E-8) MSgts attend the SNCOA each year. - Resident graduation is a prerequisite for CMSgt sew-on (Active Duty Only).	SMSgt	19.2 years	11 years	26 Years
Upgrade To Superintendent (9-Skill Level) - Minimum rank of SMSgt. - Must be a resident graduate of SNCOA (Active Duty Only).	CMSgt	21.5 years	14 years	30 Years

8.2. Education and Training Manager Checklist:

Table 8.2. Base Education and Training Manager Checklist		
Requirements for Upgrade to:	**Y**	**N**
Journeyman - Has the apprentice completed mandatory CDCs, if available? NOTE: Upgrade Trainees will not be required to retake their 5-level CDC to fulfill requirements. - Has the apprentice completed all 5-level core tasks on one MDS aircraft identified in the CFETP? - Has the apprentice completed all other duty position tasks identified by the supervisor? - Has the apprentice completed 15 months upgrade training (9 months for retrainees)? - Has the apprentice met mandatory requirements listed in specialty description, AFMAN 36-2108 (Airman Classification), and the CFETP? - Has the apprentice been recommended by their supervisor?		
Craftsman - Has the journeyman achieved the rank of SSgt? - Has the journeyman completed mandatory CDCs, if available? - Has the journeyman completed all 5- and 7-level core tasks on one MDS aircraft identified in the CFETP? - Has the journeyman completed all other duty position tasks identified by the supervisor? - Has the journeyman attended 7-skill level Craftsman Course (if available)? **First, they must complete:** -- All 5- and 7-skill level core and duty position training requirements listed in the CFETP. -- All applicable mandatory CDCs and/or exportable courses. -- A minimum of 12 months UGT (6 months for retrainees). - Has the journeyman completed a minimum 18 months UGT (12 months for retrainees) for award of the 7-skill level?		

TO: Squadron/CC

FROM: Squadron Training Manager

SUBJECT: Upgrade _____(Trainee Name)

Trainee is prepared to be upgraded and has completed all mandatory training requirements. Supervisor recommends upgrade.

_____ _____

Training Manager Supervisor

SECTION C - SKILL LEVEL TRAINING REQUIREMENTS

9. Purpose: Skill level training requirements in this career field are defined in terms of tasks and knowledge requirements. This section outlines the specialty qualification requirements for each skill level in general terms and establishes the mandatory requirements for entry, award, and retention of each skill level. The specific task and knowledge training requirements are identified in the STS in Part II, Sections A and B of this CFETP.

10. Specialty Qualification: The various skill levels in this career field are defined in terms of tasks and knowledge proficiency requirements for each skill level. They are stated in broad general terms and establish the standards of performance. The specific task and knowledge training requirements are identified in the STS in Part II, Section A of the CFETP. Unit work centers must develop a structured training program to ensure the following requirements are met.

10.1. Apprentice Level Training (3-Level):

10.1.1. Specialty Qualification. To perform duties at the Apprentice Level, an individual must be able to understand basic system theory of operation and be able to perform certain organizational maintenance tasks under close supervision until task certification is complete.

10.1.1.1. Knowledge. A three-skill level must be able to use technical data, common hand tools, and special test equipment. Apprentices must be qualified to remove and install system LRUs and SRUs, perform operational checks, troubleshoot Communication/Navigation/Mission systems to the fault identification and/or isolation level, trace signal/data flow of system schematic diagrams, and document maintenance actions in the automated data system.

10.1.1.2. Education. For entry into this specialty, completion of high school with courses in basic electronics, mathematics, general science and mechanics is desirable.

10.1.1.3. Training. Training to the three-skill level will require completion of the Electronic Principles course conducted at Lackland AFB, and an initial skills course at Sheppard AFB. For award of AFSC 2A533A, completion of the basic Communication/Navigation/Mission Systems Principles Course (J3ABR2A533A 002) is mandatory.

10.1.1.4. Experience. There is no experience necessary for entry into AFSC 2A533A.

10.1.1.5. Other.

10.1.1.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123 is mandatory.

10.1.1.5.2. For award and retention of AFSC 2A553A, eligibility for a Secret security clearance is required as outlined in AFI 31-501.

10.1.2. Training Sources. The initial skills courses are focused to increase “hands-on” time with task performance as the basic learning foundation. These courses will provide the required knowledge and qualification training. Initial skills training encompasses basic system theory and operation, system components, component removal and installation, introduction to maintenance concepts, general flightline maintenance practices, use of technical publications, maintenance documentation, and support equipment familiarization and use. The course will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the STS.

10.1.3. Implementation. Upon graduation from Basic Military Training, airmen are assigned to Lackland AFB for completion of Course L3AQR2A533A XXX, Electronic Principles. Airmen will then go to Sheppard AFB to attend course J3ABR2A533A 002, Communication/Navigation/

Mission Systems Apprentice. Upon graduation from this course, airmen should attend appropriate airframe specific FTD courses.

10.2. Journeyman Level Training (5-Level):

10.2.1. Specialty Qualification. In addition to the 3-level qualifications, a 5-level must possess the knowledge and skills necessary to maintain avionic systems.

10.2.1.1. Knowledge. An individual must be task qualified on: inspecting communication/ navigation/mission systems components, troubleshooting components, removal and installation of system SRUs, repair and replacement of components, BIT/GRT tests, and the use and maintenance of test and support equipment. Individuals must be able to apply the proper handling, use, and disposal of hazardous waste and materials according to environmental standards.

10.2.1.2. Education. There is no formal education for upgrade to 2A553A.

10.2.1.3. Training. Requirements for the Journeyman level require completion of the 5-level CDC and completion of the 5-level core tasks specified in the STS.

10.2.1.4. Experience. Qualification in and possession of AFSC 2A533A. Also, experience performing or supervising functions such as removing and installing system LRUs and SRUs, performing operational checks, and troubleshooting communication/navigation/mission systems.

10.2.1.5. Other. Normal color vision as defined in AFI 48-123 is mandatory.

10.2.2. Training Sources and Resources. The 5-level CDC provides the career knowledge training required. Qualification training and OJT will provide training and qualification on the core tasks identified in the STS. The CDC is written to build from the trainee's current knowledge base, and provides more in-depth knowledge to support OJT requirements.

10.2.3. Implementation. Training to the 5-level is performed by the unit, utilizing STS, CDCs, and OJT. Upgrade to the 5-level requires completion of the Basic Offensive Avionics Skills CDC, the applicable 2A553A Offensive Avionic Systems Journeyman (B-1/B-2/B-52) CDC, the 2A452B CDC, and completion of all 5-level core tasks on one MDS aircraft.

10.3. Craftsman Level Training (7-Level):

10.3.1. Specialty Qualification. In addition to the 5-level qualifications, an individual must possess advanced skills and knowledge in theory, concepts, principles and application as they apply to Communication/Navigation/Mission Systems.

10.3.1.1. Knowledge. The 7-level must be able to supervise and train personnel to perform required maintenance. They must be able to conduct long-range planning and scheduling, and be able to organize maintenance to ensure effective utilization of available resources. Qualification is required on advanced repair and inspection techniques; component and system fault isolation (troubleshooting, and diagnostics techniques); and repair requirements, procedures and evaluation. Historical documentation analysis is also required for all 7-levels.

10.3.1.2. Education. There are no additional education requirements beyond those defined for the apprentice level.

10.3.1.3. Training. Completion of CDC 2AX7X, and the resident 7-level course, J3ACR2A573-001, at Sheppard AFB TX is mandatory for upgrade to AFSC 2A573A.

10.3.1.4. Experience. Completion of all 5- and 7-level core tasks on one MDS aircraft as identified in the STS, and qualification in and possession of AFSC 2A553A. Also, experience performing or supervising functions such as analyzing equipment operating characteristics to isolate malfunctions in Communication/Navigation/Mission Systems, multiplexed data bus

systems, video recording systems, electro-optical viewing systems (EVS), and inertial navigation systems.

10.3.1.5. Other. Normal color vision as defined in AFI 48-123 is mandatory.

10.3.2. Training Sources and Resources. Seven-level upgrade training will be conducted by certified trainers using AF core tasks, unit/MAJCOM specific courses, and the formal 7-level course, J3ACR2A573 001 Craftsman Avionics Course. The 7-level CDC and resident courses are written to provide advanced system/management knowledge, and troubleshooting skills.

10.3.3. Implementation. Upgrade to the 7-level will require completion of all applicable 5- and 7-level AF core tasks on one MDS, 7-level CDCs, 18 months OJT as a SSgt, and completion of the 7-level Craftsman Avionics Course. Completion of AF core tasks, 7-level CDC, and 12 months OJT as a SSgt will be completed before attending the resident course.

10.4. Superintendent Level Training (9-Level):

10.4.1. Specialty Qualification. In addition to 7-level qualifications, individuals must possess advanced skills and knowledge of concepts and principles in the management of aircraft maintenance.

10.4.1.1. Knowledge. The 9-level needs to be an effective leader; must be able to forecast, budget and manage unit operations and maintenance (O&M) funding and other assigned resources; and must be knowledgeable of environmental standards and ensure adherence to the proper handling and disposal of hazardous materials.

10.4.1.2. Education. There are no additional requirements beyond those defined for the apprentice level.

10.4.1.3. Training. For award of AFSC 2A590, completion of applicable PME courses and promotion to SMSgt is mandatory.

10.4.1.4. Experience. Qualification in and possession of AFSC 2A471, 2A472, 2A571, 2A572, and 2A573X. Also experience managing or directing repair activities for offensive avionic systems, and associated maintenance functions.

10.4.1.5. Other. Normal color vision as defined in AFI 48-123 is mandatory.

10.4.2. Training Sources and Resources. The Senior NCO Academy and unit OJT will be used for training.

10.4.3. Implementation. The 9-level will be awarded after completing MAJCOM requirements, unit OJT and promotion to SMSgt. Individuals will attend the Senior NCO Academy after they are selected for promotion to SMSgt. Guard and Reserve personnel may use the correspondence course.

SECTION D - RESOURCE CONSTRAINTS

11. Purpose: This section of the CFETP identifies known resource constraints which preclude optimum/desired training from being developed or conducted. Included is a narrative explanation of each resource constraint, an impact statement describing the effect on training, the resources needed, and actions required to satisfy the training requirements.

12. Apprentice Level Training:

12.1. Constraint: Technical school aircraft and trainer configurations do not support all of the identified STS Apprentice Level Course objectives. Several Operational checks must be

developed before certain STS line items can be taught. B-1 Armament/Avionics Maintenance Trainer System Ground Readiness Tests must match current aircraft configurations.
12.1.1. Impact: A number of STS task items cannot be taught due to the lack of operational systems on Sheppard AFB aircraft.
12.1.2. Resources Required: Aircraft systems require parts and repair.
12.1.3. Action Required: Repair aircraft systems. OPR: 82 LG and 365 TRS.
12.1.4. OPR/Target Completion Date. 365 TRS/TRR and 82 LG. Oct 00.
12.2 Constraint. Training requirements to support transition to the Integrated Maintenance Data System (IMDS) were defined. Since IMDS will ultimately replace CAMS and GO81, these training requirements describe our approach to 3/5/7-level training and CDC content training.
12.2.1. Impact. Training and resource requirements on IMDS must be planned to ensure no interruptions in career field training. Current projections are for IMDS to be fielded to Sheppard AFB sometime in FY02. All training at Sheppard AFB will convert to using IMDS when Sheppard AFB is converted. At that point, the 2A5X3A training will use IMDS to the levels defined in part II. Training on CAMS will then revert solely to CBT and OJT. No later than Oct 01, the 5 level CDCs will include IMDS (Note: This date is dependent upon IMDS manuals and training being provided to the CDC writer). The CDCs will include both CAMS and IMDS until Oct 03. No later than Oct 03, the CAMS material will be deleted provided IMDS has largely completed fielding. CAMS material needs to be removed from WAPS testing effective FY04 cycle. **Note**: *If the fielding schedule is delayed or advanced, dates will change as appropriate.*
12.2.2. Resources Required. IMDS instructions and training. IMDS equipment.
12.2.3. Action Required. IMDS training will be projected and provided through the IMDS Training IPT. The 365 TRS will submit its IMDS equipment requirements to HQ AETC/XPRO. HQ AETC/XPRO will ensure that Sheppard AFB instructors and infrastructure are prepared to convert to IMDS training when Sheppard AFB is converted. AETC/XPRO will work these issues through the IMDS Training and Fielding IPTs. These actions must be accomplished to ensure career fields are smoothly transitioned to IMDS on schedule.
12.2.4. OPR/Target Completion Date. 365 TRS/TRR and HQ AF/ILMM. Completion date is estimated to be FY03.

Section E. - Transitional Training Guide.

Initial Skills Training (3 Skill Level): The basic 2A5X3A initial skills course will increase to about 90 days with the addition of the Communication/Navigation training from C shred. Communication/Navigation training and resources will transfer to A shred. The revised A shred course will be on-line NLT May 2000 so students can be graduated by Oct 2000. The 5 level CDCs consist of the existing 2A55A1, A2, A3, A4, and 2A452B. CDC 2A55A1, one of the applicable MDS CDCs (2A55A2, A3, or A4), and 2A452B, are required for upgrade. All CDCs will be used for SKT testing. Journeyman/Craftsman (5/7 Skill Level): there is no required training for this conversion. Individuals will be exempt from SKT testing during the 2001 test cycle.

PART II

SECTION A - SPECIALTY TRAINING STANDARD

1. Implementation: This STS will be used for technical training provided by Air and Education Training Command for classes beginning May 2000.

2. Purpose: As prescribed in AFI 36-2201, this STS:
2.1. Lists in column 1 (Task, Knowledge, and Technical Reference) the most common tasks, knowledge, and technical references (TR) necessary for airmen to perform duties in the 3-, 5-, and 7-skill level. An asterisk (*) before the task number indicates a wartime course objective. The 7-level in-residence craftsman course will not be taught in wartime.
2.2. Column 2 (Core Tasks) identifies, by asterisk (*), specialty-wide training requirements. Core tasks identified with an *R are optional for AFRC and ANG. As a minimum, certification on all shop/flightline core tasks applicable to one Mission Design Series (MDS) aircraft assigned must be completed for skill level upgrade. Exemptions:
2.2.1. Core tasks which are not applicable to base assigned aircraft or equipment are not required for upgrade (units are not required to send personnel TDY for core task training).
2.2.2. For units with more than one MDS aircraft, upgrade trainees need only complete core tasks on a single MDS. MFMs, unit commanders, and/or supervisors may require trainees to complete core task training on additional MDSs, if desired. If some of these core tasks involve training in another unit on base, trainees must still complete all core tasks relevant to at least one MDS. All units are bound by the requirements in this CFETP and will accommodate core task trainees from other units.
2.2.3. Units that use the GO81 maintenance data collection system do not need to complete Core Automated Maintenance System (CAMS) Computer Based Training (CBT) core tasks. However, these units must be capable of training CAMS related CBT core tasks for deployment preparation. This capability ensures GO81 users are capable of operating CAMS prior to deploying to CAMS using units. This requirement will remain in effect until GO81 and CAMS are converted to the Integrated Maintenance Data System (IMDS).
2.3. Provides certification for OJT. Column 3 is used to record completion of tasks and knowledge training requirements. Use automated training management systems to document technician qualifications, if available. Task certification must show a certification/completed date.
2.4. Show formal training and correspondence course requirements. Column 4 shows the proficiency to be demonstrated on the job by the graduate as result of training on the task/knowledge and the career knowledge provided by the correspondence course. When two codes are used in columns 4 (e.g. 2b/b), the first code is the established requirement for resident training on the task/knowledge, and the second code indicates the level of training provided in the course due to equipment shortages or other resource constraints. See CADRE/AFSC/CDC listing maintained by the unit training manager for current CDC listing.
2.5. Qualitative Requirements: Attachment 1 contains the proficiency code key used to indicate the level of training and knowledge provided by resident training and career development courses.

2.6. Job Qualification Standard: Becomes a Job Qualification Standard (JQS) for on-the-job training (OJT) when placed in the AF Form 623, **On-the-Job Training Record**, and used according to AFI 36-2201. For OJT, the tasks in column 1 are trained and qualified to the go/no go level. "Go" means the individual can perform the task without assistance and meets local requirements for accuracy, timeliness, and correct procedures. When used as a JQS, the following requirements apply:

2.6.1. Documentation: Document and certify training IAW AFMAN 36-2247, Chapter 5. Automated records, utilizing Core Automated Management System (CAMS) or Integrated Maintenance Data System (IMDS)/Global Combat Support System (GCSS), reflecting this STS may be used and are highly encouraged. The CFETP Section I and Section II, Part A must be filed in individual records. Use of attachments one, two and six are mandatory in records. In addition, use of at least one of attachments three, four, or five is required. MAJCOMs may designate additional core tasks other than those already identified in the CFETP. Identify duty position requirements by circling (in pencil) the subparagraph number next to the task statement. As a minimum, complete the following columns: date training completed, trainee initials, trainer initials, and certifier initials (core tasks only). Trainers may sign off non-core and non-critical tasks by initialing the trainer's column; third party certification is not required for non-core and non-critical tasks. There are no approved AFJQS for this AFSC.

2.6.1.1. Converting from Old Document to CFETP: Transcribe records IAW AFMAN 36-2247. All AFJQSs and previous CFETPs are replaced by this CFETP; therefore, conversion of all training records to this CFETP STS is mandatory. Automated records reflecting this STS may be used and are highly encouraged. Use this CFETP STS (or automated STS) to identify and certify all past and current qualifications.

2.6.1.1.1. For those core and critical tasks previously certified and required in the current duty position, evaluate current qualifications and when verified, recertify using current date as completion date, and enter trainee's and certifier's initials. Remember, during the transcription process no training is taking place. Therefore, the trainer's initials are not required.

2.6.1.1.2. For non-core and non-critical tasks previously certified and required in the current duty position, evaluate current qualifications and when verified, recertify using current date as completion date, and enter trainee's and trainer's initials.

2.6.1.1.3. When transcribing previous certification for tasks not required in the current duty position, carry forward ***only*** the previous completion date of certification (not the initials of another person). If and when transcribed tasks become duty position requirements, recertify using standard certification procedures.

2.6.1.1.4. The person whose initials appear in the trainer or certifier block during the transcription process must meet the requirements of their respective roles.

2.6.1.1.5. Upon completion of the transcription process, give the old CFETP to the member.

2.6.1.2. Documenting Career Knowledge: When a CDC is not available: the supervisor identifies CFETP Part II training references that the trainee requires for career knowledge and ensures, as a minimum, that trainees cover the mandatory items in AFMAN 36-2108. CDC information in **all** attachments of the CFETP are mandatory for five and seven-level upgrade. For two-time CDC course exam failures: supervisors identify all Part II items corresponding to the areas covered by the CDC. The trainee completes a study of references, undergoes evaluation by the task certifier, and receives certification on the CFETP Part II. ***Supervisors must document successful completion of career knowledge prior to submitting a CDC waiver.***

2.6.1.3. Decertification and Recertification: When an airman is found to be unqualified on a task previously certified for his or her position, the supervisor lines through the previous certification or deletes previous certification when using automated system. Appropriate remarks are entered on the AF Form 623A, **On-The-Job Training Record Continuation Sheet**, as to the reason for decertification. The individual is recertified (if required) either by erasing the old entries and writing in the new or by using correction fluid/tape (if the entries are in ink) over the previously certified entry.

2.6.2. AF Form 797. When additional items not listed in the CFETP Part II are necessary in the current duty assignment, enter them on the AF Form 797. Fill out the form IAW AFMAN 36-2247.

2.6.3. Disposition of Training Records. Upon separation, retirement, commissioning, or promotion to Master Sergeant (unless otherwise directed by the AFCFM, MAJCOM, unit commander, or supervisor), give the individual their training records. Also, give individuals outdated training records after transcribing records. Do not remove any training records that show past qualifications unless transcribed to a new CFETP. For example, an individual working in a tool crib or staff position must maintain documented career field qualifications in case they return to direct maintenance duty. Supervisors must exercise good judgment when removing training records not needed in current duty positions.

2.7. Is a guide for development of promotion tests used in the Weighted Airman Promotion System (WAPS). Specialty Knowledge Tests (SKTs) are developed at the USAF Occupational Measurement Squadron by senior NCOs with extensive practical experience in their career fields. The tests sample knowledge of STS subject matter areas judged by test development team members as most appropriate for promotion to higher grades. Questions are based upon study references listed in the WAPS catalog. Individual responsibilities are in chapter 14 of AFI 36-2606, *US Air Force Reenlistment, Retention, and NCO Status Programs*. WAPS is not applicable to the Air National Guard or Air Force Reserve.

3. Recommendations. Report unsatisfactory performance of individual course graduates to the AETC Training Manager at 365 TRS/TRR, 609 9th Ave., Stop 242, Sheppard AFB TX, 76311-2335, DSN 736-7899. Reference specific STS paragraphs. A customer service information line has been installed for the supervisor's convenience to identify graduates who may have received training on task/knowledge items listed in this training standard. For a quick response to problems, call our customer service information line, DSN 736-2574.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

JOHN W. HANDY, Lieutenant General, USAF
DCS/Installations and Logistics

6 Attachments
1. Proficiency Code Key (Mandatory to file with CFETP Section I and Section II, Part A)
2. Training Requirements, Common Task (Mandatory)
3. Training Requirements, B-1 (Mandatory for B-1 personnel)
4. Training Requirements, B-2 (Mandatory for B-2 personnel)
5. Training Requirements, B-52 (Mandatory for B-52 personnel)
6. Training Requirements, Electronic Fundamentals (Mandatory)

Note: One of attachments 3, 4, or 5 must be filed.

This Block Is For Identification Purposes Only		
Name Of Trainee		
Printed Name (*Last, First, Middle Initial*)	Initials (Written)	SSAN
Printed Name Of Training/Certifying Official And Written Initials		
N/I	***N/I***	
N/I	***N/I***	
N/I	***N/I***	
N/I	***N/I***	
N/I	***N/I***	
N/I	***N/I***	
N/I	***N/I***	
N/I	***N/I***	

QUALITATIVE REQUIREMENTS

Proficiency Code Key		
	Scale Value	Definition: The individual
Task Performance Levels	1	**IS EXTREMELY LIMITED** (Can do simple parts of the task. Needs to be told or shown how to do most of the task.)
	2	**IS PARTIALLY PROFICIENT** (Can do most parts of the task. Needs only help on hardest parts.)
	3	**IS COMPETENT** (Can do all parts of the task. Needs only a spot check of completed work.)
	4	**IS HIGHLY PROFICIENT** (Can do the complete task quickly and accurately. Can tell or show others how to do the task.)
*Task Knowledge Levels	a	**KNOWS NOMENCLATURE** (Can name parts, tools, and simple facts about the task.)
	b	**KNOWS PROCEDURES** (Can determine step by step procedures for doing the task.)
	c	**KNOWS OPERATING PRINCIPLES** (Can identify why and when the task must be done and why each step is needed.)
	d	**KNOWS ADVANCED THEORY** (Can predict, isolate, and resolve problems about the task.)
**Subject Knowledge Levels	A	**KNOWS FACTS** (Can identify basic facts and terms about the subject.)
	B	**KNOWS PRINCIPLES** (Can identify relationship of basic facts and state general principles about the subject.)
	C	**KNOWS ANALYSIS** (Can analyze facts and principles and draw conclusions about the subject.)
	D	**KNOWS EVALUATION** (Can evaluate conditions and make proper decisions about the subject.)

Explanations

***** A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (Example: b and 1b)

** A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common to several tasks.

\- This mark is used alone instead of a scale value to show that no proficiency training is provided in the courses or CDCs.

/ This mark is used in course columns to show that training is required but not given/reduced due to limitations in resources (3c/b, 2b/b, 3c/-, etc.).

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp.	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
ATTACHMENT 2 NOTE 1: All course requirements are trained in the 3-level resident wartime course. The 7 level in-residence course is not taught in wartime. NOTE 2: Users are responsible for annotating training references to identify current references pending STS revision. NOTE 3: Items marked in columns 2a or 2b marked with a *R are optional core tasks for ANG and AFRC. NOTE 4: The course will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the STS. NOTE 5: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-7899.												
A2.1. CAREER LADDER PROGRESSION											
A2.1.1. Progression in career ladder 2A5X3X TR: AFI 36-2108, AFVA 39-1								-	-	-	-
A2.1.2. Duties of 3-, 5-, and 7-level personnel TR: AFMAN 36-2108								-	-	-	-
A2.2. SECURITY											
A2.2.1. Information Security TR: AFI 31-401, 31-501, AFPD 31-4, 31-5 Applicable directives								-	-	-	-
A2.2.1.1. Classification of information								A	-	-	B
A2.2.1.2. Prevention of security violations								A	-	-	-
A2.2.1.3. Access to classified information								-	-	-	B
A2.2.2. Physical Security TR: AFI 31-101V1, DODR 5200-8											
A2.2.2.1. Control of restricted areas								-	-	-	-
A2.2.2.2. Security alert reporting								-	-	-	-
A2.2.2.3. Make entries on cabinet, safes, and room security forms								a	-	-	B
A2.2.2.4. Proper handling of classified materials								-	-	-	-
A2.2.3. Communications Security (COMSEC) TR: AFI 31-401, DOD 5200.1-4											
A2.2.3.1. COMSEC Education Program								-	-	-	B
A2.2.3.2. Specific 2A5X3A vulnerabilities								A	-	-	-
A2.2.4. Operations Security (OPSEC) TR: AFI 10-1101, AFPD 10-11; Applicable directives											
A2.2.4.1. Goals of OPSEC program								A	-	-	B
A2.2.4.2. Relationship to other programs								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp.	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.2.4.3. Specific 2A5X3A vulnerabilities								A	-	-	-
A2.2.4.4. Function of CILS (critical information lists)								a	-	-	-
A2.2.5. Computer security (COMPUSEC)								A	-	-	B
A2.3. AF OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM TR: AFI 91-series; TOs 31, 33 series											
A2.3.1. AFOSH standards for AFSC 2A5X3A								-	-	-	-
A2.3.2. Maintain safe work area								-	-	-	-
A2.3.3. Hazards/Safety Practices of AFSC 2A5X3A											
A2.3.3.1. RF energy								A	-	-	-
A2.3.3.2. Noise								A	-	-	-
A2.3.3.3. Compressed gases								A	-	-	-
A2.3.3.4. Electrical power								A	-	-	-
A2.3.3.5. Hydraulic power								A	-	-	-
A2.3.3.6. Hazardous liquids								A	-	-	-
A2.3.3.7. Radioactive parts and materials								A	-	-	-
A2.3.3.8. Aircraft								-	-	-	-
A2.3.3.9. AGE equipment								-	-	-	-
A2.3.3.10. Electrical equipment								A	-	-	-
A2.3.3.11. STV Beryllium mirrors								A	-	-	-
A2.3.3.12 Practice FOD prevention								b	-	-	-
A2.3.3.13 AF Nuclear Surety Program								-	-	-	-
A2.4. HAZARDOUS MATERIALS AND WASTE HANDLING ACCORDING TO ENVIRONMENTAL STANDARDS TR: AFI 23-504, EPA State Regulations											
A2.4.1. Types of hazardous material /fluids								B	-	-	-
A2.4.2. Handling procedures								B	-	-	B
A2.4.3. Storage and labeling								B	-	-	-
A2.4.4. Proper disposal								B	-	-	B
A2.4.5. Material Safety Data Sheet								B	-	-	-
A2.5. MAINTENANCE MANAGEMENT TR: ACCI 21-101											
A2.5.1. Purpose and function of the Maintenance Organization								-	B	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp.	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.5.2. Maintenance Data Collection								A	B	-	-
A2.5.3. Core Automated Maintenance System								A	B	-	-
A2.5.4. Maintenance accountability								-	-	B	B
A2.5.5. Basic functions and responsibilities of the maintenance complex								-	A	C	B
A2.5.6. Operational Risk Management								-	-	-	B
A2.5.7. Logistics/Resource Maintenance Management											
A2.5.7.1. Logistics Management								-	-	C	B
A2.5.7.2. Resource Management								-	-	-	B
A2.5.7.3. Operations/Logistics Group Commander Responsibilities								-	-	-	B
A2.5.7.4. Technical Order (TO) Management								-	-	-	B
A2.5.7.5. Deficiency Reporting								-	-	-	B
A2.5.7.6. Product Improvement Working Group, Test Planning Working Group, System Training Plan, and Product Improvement Review								-	-	-	A
A2.5.7.7. Financial Plan								-	-	-	A
A2.5.7.8. Aircraft Maintenance Management Information Systems								-	-	-	B
A2.5.7.9. Aircraft Monitoring								-	-	-	B
A2.5.7.10. Compliance and Standardization Requirements Listing (CSRL)								-	-	-	A
A2.5.7.11. Maintenance QPM Relationships								-	-	-	B
A2.5.7.12. FOD Program Manager								-	-	-	A
A2.5.7.13. Mobility								-	-	-	A
A2.5.7.14. Expediter, Production Supervisor and Flight Chief Duties and Responsibilities								-	-	-	B
A2.5.7.15. Maintenance Incident Investigation and Prevention								-	-	-	B
A2.5.8. Repair Cycle								A	-	C	B
A2.6. MAINTENANCE AND INSPECTION SYSTEMS, FORMS TR: AFI 21-101											
A2.6.1. Maintenance systems								-	-	-	-
A2.6.2. Aircraft inspection systems								-	A	-	-
A2.6.3. Use Maintenance Data Collection Forms								2b	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp.	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.6.4. Historical Records								-	-	-	B
A2.6.5. Status Reports								-	-	-	B
A2.6.6. Configuration Management								-	-	-	B
A2.6.7. Operate Core Automated Maintenance Systems (CAMS)											
A2.6.7.1. Create discrepancy	*							2b	-	-	-
A2.6.7.2. Schedule discrepancy	*							2b	-	-	-
A2.6.7.3. Defer discrepancy	*							2b	-	-	-
A2.6.7.4. Transfer discrepancy	*							2b	-	-	-
A2.6.7.5. Sign off discrepancy											
A2.6.7.5.1. Cannibalization		*						2b	-	-	-
A2.6.7.5.2. Action taken code “P”	*							2b	-	-	-
A2.6.7.5.3. Action taken code “Q”	*							2b	-	-	-
A2.6.7.5.4. Action taken code “R”	*							2b	-	-	-
A2.6.7.5.5. Special Inspections								2b	-	-	-
A2.6.7.5.6. Maintenance transactions								-	-	-	-
A2.6.7.5.7. Supply transactions								-	-	-	A
A2.6.7.5.8. Maintenance/Supervision Transactions								-	-	-	A
A2.6.7.6. Use Integrated Maintenance Data System (IMDS)								-	-	-	A
A2.6.7.7. Other Automated Maintenance System (RAMPOD and GO 81)								-	-	-	A
A2.6.7.8. Access and print all open events assigned to workcenter								2b	-	-	-
A2.6.8. Job Data Documentation (JDD)								-	-	-	B
A2.6.9. Material Deficiency Reporting System								-	B	-	B
A2.6.10. Deficiency Reporting System											
A2.6.10.1. Concept of								-	B	-	-
A2.6.10.2. Use								-	-	-	-
A2.6.10.3. Initiate software improvement/deficiency report								-	-	-	B
A2.6.11. Use aircraft/equipment maintenance forms											
A2.6.11.1. 781A	*							2b	B	-	B
A2.6.11.2. 781B								-	B	-	B
A2.6.11.3. 781C								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp.	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.6.11.4. 781H								-	B	-	B
A2.6.11.5. 781J								-	B	-	B
A2.6.11.6. 781K	*							2b	B	-	B
A2.6.11.7. 781L								-	B	-	B
A2.6.11.8. AFTO Form 244/245								-	-	-	B
A2.6.11.9. AF Form 1492								-	-	-	-
A2.7. SUPERVISION											
A2.7.1. Orient new personnel TR: AFI-36-2108, 36-2201								-	-	-	-
A2.7.2. Assign personnel to work assignmentsTR: AFI 21-101 and applicable command directives								-	-	-	-
A2.7.3. Plan work assignments and priorities TR: AFI 21-101 and applicable command directives								-	-	-	-
A2.7.4. Schedule work assignments and priorities TR: AFI 21-101 and applicable command directives								-	-	-	-
A2.7.5. Coordinate work assignments TR: AFI 21-101 and applicable command directives								-	-	-	-
A2.7.6. Establish TR: AFI 21-101 and applicable command directives											
A2.7.6.1. Work methods								-	-	-	-
A2.7.6.2. Controls								-	-	-	-
A2.7.6.3. Performance Standards								-	-	-	-
A2.7.7. Establish work performance of subordinate personnel TR: AFI 21-101 and applicable command directives								-	-	-	-
A2.7.8. Help resolve technical problems for subordinate personnel TR: AFIs 36-2101, 36-2201; AFCAT 36-2223								-	-	-	-
A2.7.9. Initiate actions to correct substandard performance TR: AFIs 36-2503, -2907, -3202, -3208								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp.	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.7.10. Counsel personnel and help resolve individual problems TR: AFP 36-2618								-	-	-	-
A2.7.11. Maintenance accountability								-	-	C	B
A2.7.12. Supervise TR: AFMAN 36-2108; AFIs 36-2201, 36-2103											
A2.7.12.1. Maintenance actions								-	-	-	B
A2.7.12.2. Inspection action								-	-	-	B
A2.7.13. Analyze											
A2.7.13.1. Maintenance reports and charts								-	-	-	B
A2.7.13.2. Inspection reports and charts								-	-	-	B
A2.7.14. Prepare											
A2.7.14.1. Maintenance inspection reports and charts								-	-	-	-
A2.7.14.2. Organization and functional charts								-	-	-	-
A2.7.15. Justify TR: AFI 21-101 and applicable command directives											
A2.7.15.1. Personnel manning requirements								-	-	-	-
A2.7.15.2. Equipment Authorizations								-	-	-	-
A2.7.16. Recommend policy changes on use of TR: AFI 21-101 and applicable command directives											
A2.7.16.1. Personnel								-	-	-	-
A2.7.16.2. Equipment								-	-	-	-
A2.7.17. Statement of charges TR: DODR 700-14V4, DOD 7200.1								-	-	-	-
A2.7.18. Perform Reports Of Survey TR: DODR 700-14V4, DOD 7200.1								-	-	-	-
A2.7.19. Aircraft Scheduling TR: AFI 21-101. ACCI 21-101											
A2.7.19.1. Generate flow charts								-	-	-	-
A2.7.19.2. Status reporting								-	-	-	-
A2.7.19.3. Flying/maintenance planning								-	-	-	-
A2.8. TRAINING TR: AFI 36-2201											
A2.8.1. Evaluate personnel for need of training								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp.	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.8.2. Plan and supervise OJT/EST:											
A2.8.2.1. Prepare JQSs (AF Form 797s)								-	-	-	-
A2.8.2.2. Conduct Training								-	-	-	-
A2.8.2.3. Counsel Trainees on their progress								-	-	-	-
A2.8.2.4. Provide motivation for trainers and trainees								-	-	-	-
A2.8.3. Career Field Education and Training Plan (CFETP)								-	-	-	B
A2.8.4. Specialty Training Standard (STS)								-	-	-	B
A2.8.5. Occupational Survey Report (OSR)								-	-	-	B
A2.8.6. Utilization and Training Workshop (U&TW)								-	-	-	B
A2.8.7. Monitor effectiveness of training											
A2.8.7.1. Career knowledge upgrade								-	-	-	-
A2.8.7.2. Job proficiency upgrade								-	-	-	-
A2.8.7.3. Qualification Training								-	-	-	-
A2.8.7.4. Maintain training records								-	-	-	B
A2.8.7.5. Evaluate effectiveness of training programs								-	-	-	-
A2.8.7.6. Recommend personnel for training								-	-	-	-
A2.8.8. OJT trainer requirements											
A2.8.8.1. Prepare teaching outlines of tasks breakdowns								-	-	-	-
A2.8.8.2. Provide trainees theory and train on actual equipment								-	-	-	-
A2.8.8.3. Provide feedback on training provided								-	-	-	-
A2.8.9. OJT task certifier requirements											
A2.8.9.1. Develop methods of evaluation to determine trainee knowledge/ qualification and training effectiveness								-	-	-	-
A2.8.9.2. Use appropriate method of evaluation and effectively determine trainees ability								-	-	-	-
A2.8.9.3. Provide supervisor and trainee feedback on results of training provided, and trainees strengths/weakness								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp.	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.9. TECHNICAL PUBLICATIONS TR: TOs 0-1-01, 00-5-1, 00-5-2, 00-5-15, 00-5-17, 00-5-18, 00-20-1, 00-20-5, , 80-00-1											
A2.9.1. Scope and application of the technical order system								A	B	-	-
A2.9.2. Use technical order indexes								-	-	-	-
A2.9.3. Use technical orders								2b	-	-	-
A2.9.4. Initiate technical order improvement/ deficiency report								a	B	-	B
A2.9.5. Scope and application of the Computer Program Identification Number (CPIN) system								A	B	-	-
A2.9.6. Use CPIN compendium								-	-	-	-
A2.9.7. Maintain technical order files								-	-	-	-
A2.9.8. Time Compliance TOs								-	-	-	B
A2.10. SUPPLY DISCIPLINE TR: AFI 21-101											
A2.10.1. Property accountability and responsibility								A	B	-	B
A2.10.2. Principles of equipment authorizationand management								-	B	-	-
A2.10.3. Special requisitions								-	-	-	-
A2.10.4. Back order verification								-	-	-	-
A2.10.5. Use equipment condition tags								2b	-	-	-
A2.10.6. Use microfiche								-	-	-	-
A2.10.7. Use issue/turn-in requests								a	-	-	-
A2.10.8. Maintenance Supply Concept								-	-	-	B
A2.10.9. Supply Documents Management								-	-	-	B
A2.10.10. Equipment Account Management								-	-	-	B
A2.10.11. Status of Reports and Training (SORTS)								-	-	-	A
A2.10.12. Priority System								-	-	-	B
A2.10.13. Repair Cycle Assets								-	-	-	B
A2.10.14. Standard Base Supply System (SBSS)								-	-	-	B
A2.10.15. Classified Asset Handling								-	-	-	A
A2.10.16. Land Mobile Radios, Pagers, and Cell Phones								-	-	-	A
A2.10.17. Supply principles								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp.	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.10.18. Lean Logistics								-	-	C	A
A2.10.19. Depot level repairable								-	-	-	B
A2.10.20. Use supply products											
A2.10.20.1. DO4								-	-	-	B
A2.10.20.2. D18								-	-	-	B
A2.10.20.3. M30								-	-	-	B
A2.10.20.4. D23								-	-	-	-
A2.11. FUNDAMENTALS OF AVIONICS SYSTEMS MAINTENANCE-ON EQUIPMENT TR: Applicable aircraft –1 and –2 series TOs											
A2.11.1. Nuclear hardness maintenance and inspections TR: Applicable system JG-00-1, 1-1A-14								A	-	-	-
A2.11.2. Use aircraft hardware and non-powered AGE TR: AFI 91-408, applicable aircraft-4								-	-	-	-
A2.11.3. Use common tools								2b	-	-	-
A2.11.4. Use torque indicating devices	*							3c	-	-	-
A2.11.5. Use special purpose tools								-	-	-	-
A2.11.6. Protection procedures when handling electrostatic devices								A	B	-	-
A2.11.7. Identify corrosion								A	-	-	-
A2.11.8. Use safetying devices								-	-	-	-
A2.11.8.1. Safety wire								2b	-	-	-
A2.11.8.2. Shear wire								2b	-	-	-
A2.11.9. Operate/Maintain peculiar (special purpose) test equipment to perform maintenance functions								-	-	-	-
A2.11.10. LRU removal/installation											
A2.11.10.1. Shock mounted								2b	-	-	-
A2.11.10.2. Tray mounted								2b	-	-	-
A2.11.10.3. Rack mounted								2b	-	-	-
A2.11.10.4. Console mounted								2b	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp.	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.12. Aircraft familiarization TR: TOs : 1B-1B-2-00GV-00-1 (Chapter 2), 1B-2A-00GV-00-1, 1B-52H-2-XXGAs -41, B-2 CAST Book											
A2.12.2.1. Major structural areas								A	A	-	-
A2.12.2.2. Major systems								A	A	-	-
A2.12.2.3. Danger areas								B	B	-	-
A2.12.3. Inspect aircraft for safe and secure bomb bay doors								-	-	-	-
A2.12.4. Practice safe entry procedures on aircraft with open fuel cells								-	-	-	-
A2.12.5. Purpose of radar absorption material (RAM)								A	-	-	-
A2.12.6. Operate motorized maintenance stand								-	-	-	-
A2.12.7. Operate cranes								-	-	-	-
A2.12.8. Launch/Recover aircraft								-	-	-	-
A2.12.9. Tow aircraft											
A2.12.9.1. Wing-walking								-	-	-	-
A2.12.9.2. Brake operator								-	-	-	-
A2.12.9.3. Tow Supervisor								-	-	-	-
A2.12.9.4. Tow vehicle operator								-	-	-	-
A2.12.10. Perform aircraft phase								-	-	-	-
A2.12.11. Maintain tool crib								-	-	-	-
A2.12.12. Debrief								-	-	-	-
A2.12.13. Dispatch maintenance crews								-	-	-	-
A2.12.14. Ensure aircraft is safe for simulated airborne conditions								-	-	-	-
A2.12.15. Perform proximity switch control covering/uncovering								-	-	-	-
A2.13. GENERAL RADAR THEORY											
A2.13.1. Antenna systems								B	B	-	-
A2.13.2. Transmitters								B	B	-	-
A2.13.3. Receivers								B	B	-	-
A2.14. MULTIPLEX BUS											
A2.14.1. Theory of Operation								B	B	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp.	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.14.2. Perform measurements with											
A2.14.2.1. Time Domain Reflectometer		*						2b	-	3c	-
A2.14.2.2. Serial Bus Analyzer								3c	-	-	-
A2.14.2.3. Bonding Meter								2b	-	-	-
A2.15. COMPUTER COMPLEX THEORY											
A2.15.1. Displays								B	B	-	-
A2.15.2. Memory storage								B	B	-	-
A2.15.3. Processors								B	B	-	-
A2.16. GENERAL NAVIGATION											
A2.16.1. Principles								B	B	-	-
A2.16.2. Global Positioning System								B	B	-	-
A2.16.3. Doppler								B	B	-	-
A2.16.4. Inertial Navigation System								B	B	-	-
A2.16.5. TACAN								B	B	-	-
A2.16.6. ILS								A	B	-	-
A2.17. GENERAL COMMUNICATION											
A2.17.1. Principles								B	B	-	-
A2.17.2. Radios								A	B	-	-
A2.17.3. Intercom								B	B	-	-
A2.17.4. Transponders								B	B	-	-
A2.18. GENERAL BOMBING FUNDAMENTALS											
A2.18.1. Principles								A	B	-	-
A2.19. AIRCRAFT WIRING											
A2.19.1. Capton								B	-	-	-
A2.19.2. Multiconductor								B	-	-	-
A2.19.3. Coaxial								B	-	-	-
A2.19.4. Nuclear hardened								B	-	-	-
A2.19.5. Twisted Pair								B	-	-	-
A2.19.6. Single Conductor								B	-	-	-
A2.20. PERFORM WIRE MAINTENANCE											
A2.20.1. Stripping								2b	-	-	-
A2.20.2. Splicing								2b	-	-	-
A2.20.3. Bundling								2b	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp.	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A2.20.4. Strain Relief								2b	-	-	-
A2.20.5. Continuity Checks								2b	-	-	-
A2.20.6. Wire Repair								-	B	-	-
A2.21. INTEGRATED MAINTENANCE DATA SYSTEM (IMDS TR: AFI 21-101											
A2.21.1. Explain the purpose of the IMDS training subsystem								A	B	B	-
A2.21.2. Document Master Task List (MTL)								-	-	B	-
A2.21.3. Perform Ad Hoc inquiry								-	-	B	-
A2.21.4. Identify duty positions requirements								-	-	B	-
A2.21.5. Document tasks certification								-	-	B	-
A2.21.6. Explain the principles, capabilities and Limitations of the Maintenance Data Collection (MDC) process								-	-	-	-
A2.21.7. Demonstrate the ability to:											
A2.21.7.1. Clear jobs	*							3c/-	-	-	-
A2.21.7.2. Transfer jobs	*							2b/-	-	-	-
A2.21.7.3. Create jobs	*							3c/-	-	-	-
A2.21.7.4. R/I components	*							3c/-	-	-	-
A2.21.7.5. Cannibalizations	*							3c/-	-	-	-
A2.21.7.6. Port Maintenance Aid (PMA) Use	*							3c/-	-	-	-
A2.21.7.7. Order Parts	*							2b/-	-	-	-
A2.21.7.8. Review Maintenance/Equipment Status	*							3c/-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
ATTACHMENT 3 NOTE 1: In addition to attachment 2, 4, and 5 personnel in the J3ABR2A533A 002 course will perform the tasks and knowledge in this attachment. NOTE 2: All course requirements are trained in the 3-level resident wartime course. The 7 level in-residence course is not taught in wartime. NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision. NOTE 4: Items marked in columns 2a or 2b marked with a (*R) are optional core tasks for ANG and AFRC. NOTE 5: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-7988. NOTE 6: The course will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the STS.												
A3.1. GENERAL ORGANIZATIONAL MAINTENANCE TR: TOs 1B-1B-2-05JG-10-1, -05JG-20-1											
A3.1.1. Ensure aircraft safe for maintenance Task 05-21-01	*							b	-	-	-
A3.1.2. Apply external power Task 05-12-01	*							b	-	-	-
A3.1.3. Apply external air conditioning Task 05-12-02	*							b	-	-	-
A3.1.4. Central Aircraft Support System (CASS)								-	-	-	-
A3.1.5. Operate Auxiliary Power Unit								-	-	-	-
A3.2. Aircraft System Integration											
A3.2.1. Purpose and Interface TR: TO 1B-1B-2-40GS-XX								A	A	-	-
A3.2.2. Use wiring diagrams for fault isolationTR: TOs 1B-1B-2-00WD-XX/XXWD-00								a	-	-	-
A3.3. CONTROLS AND DISPLAYS SYSTEMS (CAD)											
A3.3.1. Functional Theory of Operation TR: TOs 1B-1B-2-34GS-00-1,-2, -94GS-00-1, -2, 93GS-00-1								A	B	-	-
A3.3.2. Perform Vertical Situation Display Indicator operation checkout TR: TOs 1B-1B-2-34JG-20-3								2b	-	-	-
A3.3.3. Perform Ground Readiness Test (GRT)TR: TOs 1B-1B-2-40JG-34-1, -2											
A3.3.3.1. Digital Computer/Multifunction Display Indicator GRT Task 40GRT-34-60								b	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.3.3.2. Offensive System Operator Integrated Keyboard Control GRT Task 40GRT-34-61								-	-	-	-
A3.3.3.3. Offensive System Operator Tracking Handle GRT Task 40GRT-34-62								b	-	-	-
A3.3.3.4. Bomb-Nav/Auxiliary Power Control GRT Task 40GRT-34-63								b	-	-	-
A3.3.3.5. Bomb-Nav Control GRT Task 40GRT-34-64								-	-	-	-
A3.3.3.6. Flight Instrument Interface GRT Task 40GRT-34-69								b	-	-	-
A3.3.4. Fault Isolate Controls and Displays TR: TOs 1B-1B-2-34GS-00-1, -34WD-00-1, -40JG-34-1, -34JG-20-3	*							-	-	-	-
A3.3.5. Remove and Install TR: 1B-1B-2-34JG-60-1, -2; 93JG-70-2, -34JG-20-3											
A3.3.5.1. Controls and Display Power Supply Task 93-74-10								-	-	-	-
A3.3.5.2. Multifunction Display Indicator (MDI) Task 34-69-10	*							b	-	-	-
A3.3.5.3. Digital Computer (DC) Task 34-62-10								-	-	-	-
A3.3.5.4. Vertical Situation Display Indicator Tasks 34-28-11, 34-29-11								-	-	-	-
A3.3.5.5. Vertical Situation Display Indicator Display Electronic Unit Tasks 34-28-10, 34-29-10								-	-	-	-
A3.3.5.6. Bomb Nav (Bomb/Nav) Control Panel Task 34-64-10								-	-	-	-
A3.3.5.7. Bomb Nav (NAV/AUX) Control Panel Task 34-63-10	*							-	-	-	-
A3.3.5.8. Keyer Control (KC) Task 34-62-11								-	-	-	-
A3.3.5.9. Tracking Handle Task 34-62-12								b	-	-	-
A3.3.6. Power Control Assemblies (PCA)											
A3.3.6.1. Theory TR: TO 1B-1B-2-24GS-00-1								A	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.3.6.2. Perform PCA Operational Checks TR: TO 1B-1B-2-24JG-50-1, -2, -3, -4,-5											
A3.3.6.2.1. 2451A01 Task 24-51-11								-	-	-	-
A3.3.6.2.2. 2451A02 Task 24-51-11								-	-	-	-
A3.3.6.2.3. 2451A03 Task 24-51-11								-	-	-	-
A3.3.6.2.4. 2451A04 Task 24-51-11								-	-	-	-
A3.3.6.2.5. 2451A07 Task 24-51-17								-	-	-	-
A3.3.6.2.6. 2452A01 Task 24-52-10								-	-	-	-
A3.3.6.2.7. 2452A03 Task 24-52-11								-	-	-	-
A3.3.6.2.8. 2452A04 Task 24-52-11								-	-	-	-
A3.3.6.2.9. 2452A06/2432B01 Task 24-52-13								-	-	-	-
A3.3.6.2.10. 2453A01 Task 24-53-10								-	-	-	-
A3.3.6.2.11. 2453A02 Task 24-53-11								-	-	-	-
A3.3.6.2.12. 2453A03 Task 24-53-11								-	-	-	-
A3.3.6.2.13. 2453A04 Task 24-53-11								-	-	-	-
A3.3.6.2.14. 2453A05 Task 24-53-11								-	-	-	-
A3.3.6.2.15. 2453A06 Task 24-53-15								-	-	-	-
A3.3.6.2.16. 2453A07 Task 24-53-18								-	-	-	-
A3.3.6.2.17. 2454A01 Task 24-54-10								-	-	-	-
A3.3.6.2.18. 2454A03 Task 24-54-10								-	-	-	-
A3.3.6.2.19. 2454A04 Task 24-54-10								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.3.6.2.20. 2454A05 Task 24-54-13								-	-	-	-
A3.3.6.2.21. 2454A06/2451B07 Task 24-54-10								-	-	-	-
A3.3.6.2.22. 2455A01 Task 24-55-10								-	-	-	-
A3.3.6.2.23. 2455A05 Task 24-55-10								-	-	-	-
A3.3.6.2.24. 2455A06/2451B06 Task 24-55-15								-	-	-	-
A3.3.6.3. Fault Isolate PCAs TR: TO 1B-1B-2-24GS-00-1, -24WD-00-1	*							2b	-	-	-
A3.3.6.4. Remove and Install TR: TOs 1B-1B-2-24JG-50-1, -2, -3, -4, -5											
A3.3.6.4.1. Forward equipment bay PCAs								-	-	-	-
A3.3.6.4.2. Central equipment bay PCAs								-	-	-	-
A3.3.6.4.3. Wheel well PCAs								-	-	-	-
A3.3.6.4.4. Aft equipment bay PCAs								-	-	-	-
A3.3.6.5. PCA Repair TR: TOs 1B-1B-24JG-50-1, -2, -3, -4, -5											
A3.3.6.5.1. SDMAs	*							-	-	-	-
A3.3.6.5.2. Relays	*							b	-	-	-
A3.3.6.5.3. Bridge rectifiers								-	-	-	-
A3.3.6.5.4. Circuit breakers								-	-	-	-
A3.4. Central Integrated Test System (CITS)											
A3.4.1. Functional Theory of Operation TR: TO 1B-1B-2-46GS-00-1								A	B	-	-
A3.4.2. Perform Ground Readiness Test (GRT) TR: TO 1B-1B-2-40JG-46-1								-	-	-	-
A3.4.3. Use Parameter Monitor Codes for systems fault isolation TR: System GS-00-1	*							2b	-	-	-
A3.4.4. Use CITS data snapshots TR: TO 1B-1B-2-40GS-00-1								2b	-	-	-
A3.4.5. Use CITS Diagnostic Display System (CDDS) TR: 33D7-3-380-1		*						2b	-	-	-
A3.4.6. Interface with COMM/NAV Systems TR: TOs 1B-1B-2-23GS-1, -34GS-00-01								A	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.4.7. CITS EMUX Maintenance Unit (CEMU) TR: 33D7-75-35-1											
A3.4.7.1. Purpose and Interface								-	-	-	-
A3.4.7.2. Use aircraft monitor modes		*						-	-	-	-
A3.4.7.3. Use aircraft STIM Codes		*						-	-	-	-
A3.4.7.4. Interface with COMM/NAV Systems TR: TO 1B-1B-2-23GS-00-1, 34GS-00-1								A	-	-	-
A3.5. RADAR SYSTEMS											
A3.5.1. Offensive Radar System (ORS)											
A3.5.1.1. Functional Theory of Operation TR: TOs 1B-1B-2-34GS-00-1, -2								A	B	-	-
A3.5.1.2. Perform Ground Readiness Test (GRT) TR: TOs 1B-1B-2-40JG-34-1, -2								-	-	-	-
A3.5.1.2.1. Radar Set Channel 1 GRT Task 40GRT-34-43	*							2b	-	-	-
A3.5.1.2.2. Radar Set Channel 2 GRT Task 40GRT-34-44								-	-	-	-
A3.5.1.2.3. Terrain Following Radar Control (GRT) Task 40GRT-34-45								-	-	-	-
A3.5.1.2.4. Radar Set Control GRT Task 40GRT-34-46								-	-	-	-
A3.5.1.2.5. Video recorder GRT Task 40GRT-34-47								-	-	-	-
A3.5.1.3. Radar Checks											
A3.5.1.3.1. Perform radar operational check TR: TO 1B-1B-2-34JG-40-2 Task 34-43-02	*							1a	-	-	-
A3.5.1.3.2. Perform waveguide pressurization leak check TR: TO 1B-1B-2-34JG-40-2 Task 34-43-01								-	-	-	-
A3.5.1.3.3. Perform simulated bomb release with bomb tone TR: TO 1B-1B-2-34JG-40-2 Task 34-43-03								-	-	-	-
A3.5.1.4. Fault Isolate TR: TOs 1B-1B-2-34GS-00-1, -2, -34WD-00-1, -40JG-34-1	*							2b	-	-	-
A3.5.1.5. Use FIA Page TR: TO 1B-1B-2-34GS-00-1	*							B	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.5.1.6. Remove and Install TR: TOs 1B-1B-2-34JG-40-1,-2, -3, -4											
A3.5.1.6.1. Radar Target Indicator (RTI) Task 34-43-12	*							b	-	-	-
A3.5.1.6.2. Radar Transmitter (RT) Task 34-43-17	*							b	-	-	-
A3.5.1.6.3. Radar Receiver Transmitter (RRT) Task 34-43-16	*							-	-	-	-
A3.5.1.6.4. Radar Signal Processor (RSP) Task 34-43-15	*							-	-	-	-
A3.5.1.6.5. Radar Video Signal Processor (RVSP) Task 34-43-13	*							-	-	-	-
A3.5.1.6.6. Wave Guide Switch Assembly Task 34-43-19								-	-	-	-
A3.5.1.6.7. Radar Set Transformer 1 & 2 Task 34-43-20								-	-	-	-
A3.5.1.6.8. Antenna (LOA) Task 34-43-18								-	-	-	-
A3.5.1.6.9. Antenna LRUs											
A3.5.1.6.9.1. Beam Steering Controller (BSC) Task 34-43-21								-	-	-	-
A3.5.1.6.9.2. Roll Resolver Power Supply (RRPS) Task 34-43-23								-	-	-	-
A3.5.1.6.9.3. Roll Electronics Assembly (REA) Task 34-43-24								-	-	-	-
A3.5.1.6.9.4. Phase Control Module (PCM) Power Supply PP-8069/APQ-164 TR: 1B-1B-2-34JG-40-4								-	-	-	-
A3.5.1.6.10. Radar Set Control (RSC) Task 34-43-11	*							-	-	-	-
A3.5.1.6.11. Radar Set Transformer 1 & 2 Task 34-43-20								-	-	-	-
A3.5.1.6.12. Video Recorder Task 34-44-10								-	-	-	-
A3.5.1.6.13. Offensive Radar Dehydrator TR: 1B-1B-2-21JG-70-1								-	-	-	-
A3.5.1.6.14. VR Film Magazine Task 34-44-10.								-	-	-	-
A3.5.1.6.15. Load and Unload Film Magazine								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.5.1.7. Operate Antenna Lockout Box/Solinoid Tester TR: 1B-1B-2-34GS-00-1								-	-	-	-
A3.5.1.8. Service Air Recirculation Coolant Loop TR: 1B-1B-2-12JG-20-1								-	-	-	-
A3.5.2. Radar Altimeter (RA)											
A3.5.2.1. Functional Theory of Operation TR: TOs 1B-1B-2-34GS-00-1, -2								A	B	-	-
A3.5.2.2. Perform Ground Readiness Test (GRT) TR: TO 1B-1B-2-40JG-34-1								-	-	-	-
A3.5.2.2.1. Radar Altimeter #1 and #2 GRT Task 40GRT-34-16								2b	-	-	-
A3.5.2.2.2. Radar Altimeter Control Display GRT Task 40GRT-34-17								2b	-	-	-
A3.5.2.3. Fault Isolate TR: TOs 1B-1B-2-34GS-00-1, -34WD-00-1, -40JG-34-1		*						2b	-	-	-
A3.5.2.4. Remove and Install TR; TO 1B-1B-2-34JG-10-3											
A3.5.2.4.1. Receiver/Transmitter Task 34-16-13	*							-	-	-	-
A3.5.2.4.2. Height Indicator Task 34-16-11								-	-	-	-
A3.5.2.4.3. Radar Altimeter Control Display Panel (RACD) Task 34-16-10								-	-	-	-
A3.5.2.4.4. Transmit/Receive Antenna Task 34-16-12								-	-	-	-
A3.5.3. Doppler Velocity Sensor (DVS)											
A3.5.3.1. Functional Theory of Operation TR: TOs 1B-1B-2-34GS-00-1, -2								A	B	-	-
A3.5.3.2. Perform Ground Readiness Test (GRT) TR: TOs 1B-1B-2-40JG-34-1, -2								-	-	-	-
A3.5.3.2.1. Doppler Data Antenna-Receiver Transmitter GRT Task 40GRT-34-42								-	-	-	-
A3.5.3.2.2. Inspect/Replace desiccant TR: TO 1B-1B-2-34GS-00-1								-	-	-	-
A3.5.3.3. Fault Isolate TR: TOs 1B-1B-2-34GS-00-1, -34WD-00-1, -40JG-34-1, -2								b	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.5.3.4. Remove and Install TR: TO 1B-1B-2-34JG-40-1											
A3.5.3.4.1. Doppler Data Antenna Receiver Transmitter (DDART) Task 34-42-10								-	-	-	-
A3.5.4. TERRAIN FOLLOWING/TERRAIN AVOIDANCE (TF/TA)											
A3.5.4.1. Functional Theory of Operation TR: TO 1B-1B-2-34GS-00-1, 2								B	B	-	-
A3.5.4.2. Perform Ground Readiness Test (GRT) TR: TOs 1B-1B-2-40JG-34-1, -2											
A3.5.4.2.1. Terrain-Following Avionics Control Computer/Signal Data Converter # 1 Task 40GRT-34-66	*							2b	-	-	-
A3.5.4.2.2. Terrain-Following Avionics Control Computer/Signal Data Converter # 2 Task 40GRT-34-67								-	-	-	-
A3.5.4.3. Fault Isolate TR: TOs 1B-1B-2-34GS-00-1, -2, -34WD-00-1. -40JG-34-1		*						2b	-	-	-
A3.5.4.4. Remove and Install											
A3.5.4.4.1. Terrain Following Radar Control (TFRC) TR: TO 1B-1B-2-34JG-40-2								-	-	-	-
A3.5.4.4.2. Terrain Following Avionics Control Unit (TFACU) TR: TO 1B-1B-2-34JG-60-2 Task 34-65-10	*							-	-	-	-
A3.6. BUS AND MULTIPLEXING SYSTEMS											
A3.6.1. Electrical Multiplexing System (EMUX)											
A3.6.1.1. Functional Theory of Operation TR: TO 1B-1B-2-92GS-00-1								A	B	-	-
A3.6.1.2. Perform Ground Readiness Test (GRT) TR: TO 1B-1B-2-40JG-92-1	*							2b	-	-	-
A3.6.1.3. Fault Isolate TR: TOs 1B-1B-2-40JG-92-1, -92GS-00-1, -92WD-00-1	*							b	-	-	-
A3.6.1.4. Remove and Install TR: TO 1B-1B-2-92JG-50-1											
A3.6.1.4.1. EMUX controller terminal Task 92-21-10	*							-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.6.1.4.2. CITS interface terminal Task 92-21-11	*							-	-	-	-
A3.6.1.4.3. Digital Remote Terminal (DRT) Task 92-21-12	*							-	-	-	-
A3.6.1.4.4. EMUX panel Task 92-31-10								-	-	-	-
A3.6.1.4.5. Data link terminal Task 92-11-10								-	-	-	-
A3.7. Avionics Control Unit Complex (ACUC)											
A3.7.1. Functional Theory of Operation TR: TOs 1B-1B-2-34GS-00-1, -2, -94GS-00-1 and –2								A	B	-	-
A3.7.2. Load ACUC TR: TO 1B-1B-2-34JG-60-2	*							2b	-	-	-
A3.7.3. Load MSD from DTUC TR: TO 1B-1B-2-34JG-60-2	*							-	-	-	-
A3.7.4. Interface with COMM/NAV Systems TR: TO 1B-1B-2-23GS-00-1, -34GS-00-1								B	B	-	-
A3.7.5. Perform data erase TR: TO 1B-1B-2-34JG-60-2								-	-	-	-
A3.7.6. Perform Ground Readiness Test (GRT) TR: TOs 1B-1B-2-40JG-34-1, -2											
A3.7.6.1. Avionics Control Unit Complex Redundant Power Feed GRT Task 40GRT-34-65								b	-	-	-
A3.7.6.2. Data Transfer Control Unit Task 40GRT-34-68								b	-	-	-
A3.7.7. Fault Isolate TR: TOs 1B-1B-2-34GS-00-1, -34WD-00-1, -40JG-34-1, 94GS-00-1, -2		*						2b	-	-	-
A3.7.8. Remove and Install TR: TO 1B-1B-2-34JG-60-2, 94JG-40-1											
A3.7.8.1. Avionics Control Computer (ACC) Task 34-65-10	*							-	-	-	-
A3.7.8.2. Memory Storage Unit (MSU) Task 34-65-24	*							-	-	-	-
A3.7.8.3. Data Transfer Unit (DTU) Complex											
A3.7.8.3.1. Control Task 34-65-26								-	-	-	-
A3.7.8.3.2. Mount Task 34-65-28								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.7.8.3.3. Cartridge Task 34-65-32								-	-	-	-
A3.7.8.4. Signal Data Converter (SDC) Task 34-65-20	*							-	-	-	-
A3.7.8.5. ACC Transformer 1-4 Task 34-65-36								-	-	-	-
A3.8. NAVIGATIONAL SYSTEMS ORGANIZATION LEVEL MAINTENANCE.											
A3.8.1. Inertial Navigation System (INS)											
A3.8.1.1. Functional Theory of Operation TR: TOs 1B-1B-2-34GS-00-1, -2								A	B	-	-
A3.8.1.2. Perform Ground Readiness Test (GRT) TR: TOs 1B-1B-2-40JG-34-1, -2											
A3.8.1.2.1. Inertial Navigation System # 1 Task 40GRT-34-40	*							b	-	-	-
A3.8.1.3. Perform Inertial Navigation Alignment TR: TO 1B-1B-2-40JG											
A3.8.1.3.1. Precision ground alignment Task 34-41-01-1	*							-	-	-	-
A3.8.1.3.2. Stored heading alignment TR: 34-41-01-2								-	-	-	-
A3.8.1.3.3. GSS heading alignment TR: 34-41-01-3								-	-	-	-
A3.8.1.4. Inertial Navigation Coefficient/Fault BallReset TR: TO 1B-1B-2-34JG-40-1 Task 34-41-02								-	-	-	-
A3.8.1.5. Fault Isolate TR: TOs 1B-1B-2-34GS-00-1, -34WD-00-1, -40JG-34-1, -2	*							b	-	-	-
A3.8.1.6. Remove and Install TR: TO 1B-1B-2-34JG-40-1											
A3.8.1.6.1. INU Task 34-41-10	*							-	-	-	-
A3.8.1.6.2. INU #1 and #2 115-Volt Transformer Task 34-41-12								-	-	-	-
A3.8.1.6.3. INU #1 and #2 26-Volt Transformer Task 34-41-13								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.8.2. Global Positioning System (GPS) B-1											
A3.8.2.1. Functional Theory of Operation TR: TO 1B-1B-2-34GS-00-1, -2								A	B	-	-
A3.8.2.2. Perform operational checkout TR: TO 1B-1B-2-34JG-50-1								-	-	-	-
A3.8.2.3. Fault Isolate TR: TO 1B-1B-2-34GS-00-1								-	-	-	-
A3.8.2.4. Remove/Install											
A3.8.2.4.1. Miniaturized Airborne GPS Receiver TR: Task 34-42-10								-	-	-	-
A3.8.2.4.2. Antenna Electronics Unit TR: Task 34-55-15								-	-	-	-
A3.8.2.4.3. Controlled Reception Pattern Antenna TR: Task 34-55-14								-	-	-	-
A3.8.3. AN/ARN-118 TACAN											
A3.8.3.1. Theory of Operation TR: TO 1B-1B-2-34GS-00-1, -2								A	B	-	-
A3.8.3.2. Perform operational check TR: TOs 1B-1B-2-34JG-50-1								-	-	-	-
A3.8.3.2.1. TACAN Self Test Operational Checkout Task 34-51-01	*							-	-	-	-
A3.8.3.2.2. TACAN Operational Checkout Task 34-51-02		*						-	-	-	-
A3.8.3.3. Fault Isolate TR: TOs 1B-1B-2-34GS-00-1, -2; -34JG-50-1; -34WD-00-2		*						-	-	-	-
A3.8.3.4. Remove and Install LRUs TR: TO 1B-1B-2-34JG-50-1											
A3.8.3.4.1. Receiver/Transmitter	*							-	-	-	-
A3.8.3.4.2. Digital to Analog converter								-	-	-	-
A3.8.3.4.3. Control box								-	-	-	-
A3.8.3.4.4. TACAN/VHF//UHF antenna								-	-	-	-
A3.8.3.4.5. Mount base								-	-	-	-
A3.8.3.5. Adjust digital to analog converter TR: TO 1B-1B-2-34JG-50-1		*						-	-	-	-
A3.8.4. AN/APX-101 Identify Friend or Foe (IFF)											
A3.8.4.1. Theory of Operation TR: TOs 1B-1B-2-34GS-1, -2								A	B	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.8.4.2. Key KIT-1C Secure Computer TR: TO 1B-1B-2-34JG-50-2	*							-	-	-	-
A3.8.4.3. Perform operational check TR: TO 1B-1B-2-34JG-50-2											
A3.8.4.3.1. IFF Self Test Operational Checkout Task 34-53-01								-	-	-	-
A3.8.4.3.2. IFF Operational Checkout Task 34-53-02	*							-	-	-	-
A3.8.4.4. Fault Isolate TR: TOs 1B-1B-2-34GS-00-1; -34JG-50-2; -34WD-00-2		*						-	-	-	-
A3.8.4.5. Remove and install LRUs TR: TO 1B-1B-2-34JG-50-2											
A3.8.4.5.1. Receiver/Transmitter	*							-	-	-	-
A3.8.4.5.2. Control box	*							-	-	-	-
A3.8.4.5.3. KIT-1C secure computer	*							-	-	-	-
A3.8.4.5.4. IFF/UHF Antenna								-	-	-	-
A3.8.4.5.5. KIT-1C control relay	*R							-	-	-	-
A3.8.5. AN/APX-105 Rendezvous Beacon											
A3.8.5.1. Theory of Operation TR: TO 1B-1B-2-34GS-00-1, -2								A	B	-	-
A3.8.5.2. Perform operational check TR: TO 1B-1B-2-34JG-50-3								-	-	-	-
A3.8.5.3. Fault Isolate TR: TOs 1B-1B-2-34GS-00-1,-2; -34JG-50-3; -34WD-00-1								b	-	-	-
A3.8.5.4. Remove and Install LRUs TR: TO 1B-1B-2-34JG-50-3											
A3.8.5.4.1. Transmit/Receive antenna								-	-	-	-
A3.8.5.4.2. Receiver/transmitter								-	-	-	-
A3.8.5.4.3. Control box								-	-	-	-
A3.8.6. AN/ARN-108 Instrument Landing System (ILS)											
A3.8.6.1. Theory of Operation TR: TO 1B-1B-2-34GS-00-1								B	B	-	-
A3.8.6.2. Perform operational check TR: TO 1B-1B-2-34JG-30-1	*							b	-	-	-
A3.8.6.3. Fault Isolate TR: TOs 1B-1B-2-34GS-00-1; -34JG-30-1; -34WD-00-1		*						b	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.8.6.4. Remove and Install LRUs TR: TO 1B-1B-2-34JG-30-1								-	-	-	-
A3.8.6.4.1. Receiver	*							-	-	-	-
A3.8.6.4.2. Marker Beacon Antenna								-	-	-	-
A3.8.6.4.3. Localizer/Glide Slope Antenna								-	-	-	-
A3.8.6.4.4. Control box	*							-	-	-	-
A3.9. COMMUNICATION SYSTEM ORGANIZATIONAL LEVEL MAINTENANCE											
A3.9.1. Audio Integrating Subsystem											
A3.9.1.1. Theory of Operation TR: TO 1B-1B-2-23GS-00-1								A	B	-	-
A3.9.1.2. Perform operational check TR: TO 1B-1B-2-23JG-50-1											
A3.9.1.2.1. Crew Intercom	*							b	-	-	-
A3.9.1.2.2. Maintenance Station Intercom	*							-	-	-	-
A3.9.1.3. Fault Isolate TR: TOs 1B-1B-2-23GS-00-1, -23JG-50-1, -23WD-00-1		*						b	-	-	-
A3.9.1.4. Remove and Install LRUs TR: TOs 1B-1B-2-23GS-00-1, -23JG-50-1,-23WD-00-1											
A3.9.1.4.1. Central control unit								-	-	-	-
A3.9.1.4.2. Crew station control unit	*							-	-	-	-
A3.9.1.4.3. Maintenance station unit								-	-	-	-
A3.9.2. Aural tone generator system											
A3.9.2.1. Theory of Operation TR: TO 1B-1B-2-31GS-00-1								A	B	-	-
A3.9.2.2. Perform GRT TR: TO 1B-1B-2-31GS-00-1								-	-	-	-
A3.9.2.3. Fault Isolate TR: TOs 1B-1B-2-31GS-00-1, 1B-1B-2-31JG-50-1		*						-	-	-	-
A3.9.2.4. Remove and Install LRU								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.9.3. AN/ARC-164 (HQ) AN/ARC-171 UHF (LOS) System Communications and Traffic Control (C&TC) system, KY-58 secure voice system											
A3.9.3.1. Theory of Operation TR: TO 1B-1B-2-23GS-00-1											
A3.9.3.1.1. ARC-164								B	B	-	-
A3.9.3.1.2. ARC-171								B	B	-	-
A3.9.3.1.3. C&TC								B	B	-	-
A3.9.3.1.4. KY-58								B	B	-	-
A3.9.3.2. Perform operational check TR: TO 1B-1B-2-23JG-20-1-											
A3.9.3.2.1. ARC-164 UHF Radio	*							b	-	-	-
A3.9.3.2.2. ARC-171 (LOS) UHF Radio								b	-	-	-
A3.9.3.2.3. C&TC								-	-	-	-
A3.9.3.2.4. KY-58	*							b	-	-	-
A3.9.3.3. Fault Isolate TR: TO 1B-1B-2-23GS-00-1, -23JG-20-1, -23WD-00-1		*						b	-	-	-
A3.9.3.4. Remove and install LRUs											
A3.9.3.4.1. C&TC control panel TR: TO 1B-1B-2-23JG-20-1								-	-	-	-
A3.9.3.4.2. Radio set control TR: TO 1B-1B-2-23JG-20-1	*							-	-	-	-
A3.9.3.4.3. UHF Transformer TR: TO 1B-1B-2-23JG-20-1								-	-	-	-
A3.9.3.4.4. Receive/transmitter TR: TO 1B-1B-2-23JG-20-1	*							-	-	-	-
A3.9.3.4.5. Auto antenna select TR: TO 1B-1B-2-23JG-20-1								-	-	-	-
A3.9.3.4.6. Search power antenna relays #1 and #2 key relays, and secure relays TR: TO 1B-1B-2-23JG-20-1								-	-	-	-
A3.9.3.4.7. Antenna relay TR: TO 1B-1B-2-23JG-20-1								-	-	-	-
A3.9.3.4.8. Secure relay TR: TO 1B-1B-2-23JG-20-1								-	-	-	-
A3.9.3.4.9. TACAN/UHF and IFF/UHF antennas TR: TO 1B-1B-2-23JG-20-1								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.9.3.4.10. KY-58 TR: TO 1B-1B-2-23GS-00-1	*							-	-	-	-
A3.9.3.4.11. KY-58 Control Panel TO: 1B-1B-2-23JG-20-1	*							-	-	-	-
A3.9.4. AN/ARC-210 VHF/UHF Radio System											
A3.9.4.1. Theory of Operation TR: TO 1B-1B-2-23GS-00-1								B	B	-	-
A3.9.4.2. Perform operational check TR: TO 1B-1B-2-23JG-20-1								-	-	-	-
A3.9.4.3. Fault Isolate TR: TO 1B-1B-2-23GS-00-1								-	-	-	-
A3.9.4.4. Remove/Install LRUs TR: 1B-1B-2-23JG-20-1											
A3.9.4.4.1. Control Panel								-	-	-	-
A3.9.4.4.2. Receiver/Transmitter								-	-	-	-
A3.9.4.4.3. High Power Amplifier								-	-	-	-
A3.9.4.4.4. Transformer								-	-	-	-
A3.9.5. KY 100 TR: 1B-1B-2-23GS-00-1											
A3.9.5.1. Theory of Operation								-	-	-	-
A3.9.5.2. Remove and Install LRUs TR: 1B-1B-2-23JG-20-2											
A3.9.5.2.1. KY-100 Computer								-	-	-	-
A3.9.5.2.2. Remote Control Unit								-	-	-	-
A3.9.6. AN/ASC-19 AFSATCOM System											
A3.9.6.1. Theory of Operation TR: TO 1B-1B-2-23GS-00-1								B	B	-	-
A3.9.6.2. Perform operational check TR: TO 1B-1B-2-23JG-20-2	*							b	-	-	-
A3.9.6.3. Isolate and Repair TR: TO 1B-1B-2-23GS-00-1, -23JG-20-2, -23WD-00-01		*						-	-	-	-
A3.9.6.4. Remove and Install LRUs TR: TO 1B-1B-2-34JG-20-2											
A3.9.6.4.1. Control Power Supply								-	-	-	-
A3.9.6.4.2. Telegraph modem and memory unit	*							-	-	-	-
A3.9.6.4.3. Keyboard control		*						-	-	-	-
A3.9.6.4.4. Teleprinter								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.9.6.4.5. Modem control								-	-	-	-
A3.9.6.4.6. Bypass/Transfer relay								-	-	-	-
A3.9.6.4.7. Bandpass filter								-	-	-	-
A3.9.6.4.8. RF Load								-	-	-	-
A3.9.6.4.9. SATCOM antenna								-	-	-	-
A3.9.7. AN/ARC-190 system											
A3.9.7.1. Theory of Operation TR: TO 1B-1B-2-23GS-00-01								B	-	-	-
A3.9.7.2. Perform operational check TR: TO 1B-1B-2-23JG-10-1	*							-	-	-	-
A3.9.7.3. Isolate and Repair TR: TO 1B-1B-2-23GS-00-1, -23JG-10-1, -23WD-00-1		*						-	-	-	-
A3.9.7.4. Remove and Install LRUs TR: TO 1B-1B-2-23JG-10-1											
A3.9.7.4.1. Radio set control								-	-	-	-
A3.9.7.4.2. Receiver/transmitter	*							-	-	-	-
A3.9.7.4.3. HF transformer								-	-	-	-
A3.9.7.4.4. Antenna coupler								-	-	-	-
A3.9.7.4.5. Antenna adapter								-	-	-	-
A3.9.8. AN/ARR-85 Low Frequency/Very Low Frequency Miniature Receiver Terminal (LF/VLF/MRT)											
A3.9.8.1. Theory of Operation TR: TO 1B-1B-2-23GS-00-1								-	-	-	-
A3.9.8.2. Perform operational check TR: TO 1B-1B-2-23JG-10-1								-	-	-	-
A3.9.8.3. Fault Isolate TR: TOs 1B-1B-2-23GS-00-1, -22JG-10-1, -23WD-00-1								-	-	-	-
A3.9.8.4. Remove and Install LRUs TR: TO 1B-1B-2-23JG-10-1											
A3.9.8.4.1. Remote control unit								-	-	-	-
A3.9.8.4.2. Receiver								-	-	-	-
A3.9.8.4.3. Printer								-	-	-	-
A3.9.8.4.4. TE antenna								-	-	-	-
A3.9.8.4.5. TM antenna								-	-	-	-
A3.9.8.4.6. KGV-61 (Transfer Modes)								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A3.9.9. COMMUNICATION AND NAVIGATION MANAGEMENT SYSTEM (CNMS) B-1 TR: 1B-1B-34JG50-4											
A3.9.9.1. Data Transfer Unit Cartridge Zeroization								-	-	-	-
A3.9.9.2. GPS/CNMS Bus Test								-	-	-	-
A3.9.9.3. Initialization GPS/Satellite Acquisition								-	-	-	-
A3.9.9.4. Crypto Varible/Maintenance Code Loading								-	-	-	-
A3.9.9.5. REMOVE AND INSTALL 1B-1B-2-34JG-50-4											
A3.9.9.5.1. Control Display Unit (CDU) TR: 34-55-10-2, -3								-	-	-	-
A3.9.9.5.2. Data Transfer Unit TR: 34-55-12-2, -3								-	-	-	-
A3.9.9.5.3. Data Transfer Unit Cartridge (DTUC) TR: 34-55-13-2, -3								-	-	-	-
A3.9.9.5.4. Bus Signal Interface Unit (BSIU) TR: 34-55-16-2, -3								-	-	-	-
A3.9.9.5.5. Synchro Repeater TR: 34-55-17-2, -3								-	-	-	-
A3.9.9.5.6. Bus Switching Relay (BSR) TR: 34-55-18-2, -3								-	-	-	-
A3.9.9.5.7. CNMS Data Link Terminal (DLT) TR: 34-55-19-2, -3								-	-	-	-
A3.9.9.5.8. Relay Panel Assembly TR: 34-55-20-2, -3								-	-	-	-
A3.9.9.5.9. Relay Panel Assembly Repair TR: 34-55-20-4								-	-	-	-
A3.9.9.5.10. Relay Bracket Assembly TR: 34-55-21-2, -3								-	-	-	-
A3.9.9.5.11. Relay Bracket Assembly Repair TR: 34-55-21-4								-	-	-	-
A3.9.9.5.12. Miniaturized Airborne GPS Receiver (MAGR) Servicing Batteries TR: 34-55-1-8								-	-	-	-
A3.9.9.5.13. CNMS 115 VAC Transformer & Checkout TR: 34-55-22-1, -2, -3								-	-	-	-
A3.9.9.5.14. Synchro Repeater 28 VDC Transformer & Checkout TR: 34-55-23-1, -2, -3,								-	-	-	-

B-1 TRAINING REQUIREMENTS

2A5X3A

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Crse	CDC	Crse	CDC

ATTACHMENT 4

NOTE 1: In addition to course requirements from attachments 2, 3, and 5, the requirements in this attachment will be trained to personnel in c J3ABR2A533A-002. This attachment outlines B-2 specific training requirements.

NOTE 2: All course requirements are trained in the 3-level resident wartime course. The 7 level in-residence course is not taught in wartime.

NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision.

NOTE 4: Items marked in columns 2a or 2b marked with a (*R) are optional core tasks for ANG and AFRC.

NOTE 5: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-7899.

NOTE 6: The course will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the STS.

A4.1. GENERAL ORGANIZATIONAL MAINTENANCE TR: TOs Applicable -1 and –2 series											
A4.1.1. Aircraft Familiarization TO: 1B-2A-2-00GV-00-1											
A4.1.1.1. Low Observable Fundamentals								A	A	-	-
A4.1.2. Aircraft Systems Integration											
A4.1.2.1. Purpose and Interface TR: 1B-2A-2-40GS-00-1								A	B	-	-
A4.1.2.2. Use wiring diagrams for Fault Isolation								-	-	-	-
A4.1.3. General Maintenance											
A4.1.3.1. Ensure aircraft safe for maintenance	*							-	-	-	-
A4.1.3.2. Apply external power	*							-	-	-	-
A4.1.3.3. Apply external air conditioning	*							-	-	-	-
A4.1.3.4. Perform System Classified Data Erase TR: TO 1B-2A-2-40JG-00-1 Task 40-00-01-01	*							-	-	-	-
A4.1.3.5. Operate AFT Avionics Bay Doors TR: TO 1B-2A-2-01JG-60-2 Task 01-61-09								-	-	-	-
A4.1.3.6. Operate Weapons Bay Doors TR: TO 1B-2A-2-01JG-60-1 Task 01-61-03								-	-	-	-
A4.1.3.7. Open/Close Engine AMAD Bay Doors TR: 1B-2A-2-01JG-60-1 Task 01-61-07								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Crse	CDC	Crse	CDC
A4.1.3.8. Open/Close ECS Bay Doors TR: TO 1B-2A-2-01JG-60-2 Task 01-61-11								-	-	-	-
A4.1.3.9. Open/Close Hydraulic Access Doors TR: TO 1B-2A-2-01JG-60-2 Task 01-61-11								-	-	-	-
A4.1.3.10. Perform ECS Power-up TR: TO 1B-2A-2-21JG-00-1 Task 21-00-05	*							-	-	-	-
A4.1.3.11. Central Aircraft Support System (CASS)											
A4.1.3.11.1. CASS Electrical Power								-	-	-	-
A4.1.3.11.2. CASS Air								-	-	-	-
A4.1.3.11.3. Dock Procedures											
A4.1.3.11.3.1. Aqueous Film Forming Foam								-	-	-	-
A4.1.3.11.3.2. Fall Arrestor System								-	-	-	-
A4.1.3.12. Removal and Installation of Relay Panel Assemblies TR: 1B-2A-2-39JG-40-1, 38JG-40-2								-	-	-	-
A4.2. OBTS GROUND PROCESSOR (OGP II)											
A4.2.1. Login/Logout OGPII TR: Software Users Manual								A	-	-	-
A4.2.2. Produce/Recreate Debrief Reports TR: TO 31S5-4-2340-1								-	-	-	-
A4.2.3. Run Predefined Text and Graphics Reports TR: TO 31S5-4-2340-1								-	-	-	-
A4.2.4. Produce Ad-Hoc Reports TR: TO 31S5-4-2340-1								-	-	-	-
A4.3. ONBOARD TEST SYSTEM (OBTS)											
A4.3.1. Functional Theory of Operation TR: TOs 1B-2A-2-31GS-00-1, -40GS-00-1								A	B	-	-
A4.3.2. Use OBTS Data and OBTS Digital Computer System (ODCS) Reports for fault isolation of Aircraft Systems Malfunctions TR: TO 1B-2A-2-40GS-00-1 and applicable system GS-00-1								-	-	-	-
A4.3.3. Interface with Comm/Nav systems TR: TOs 1B-2A-2-23GS-00-1; -34GS-00-1								A	B	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Crse	CDC	Crse	CDC
A4.4. MULTIPLEX BUS SYSTEM											
A4.4.1. Functional Theory of Operation TR: TO 1B-2A-40GS-00-1, and applicable system GS-00-1								A	B	-	-
A4.4.2. Fault Isolate TR: TOs 1B-2A-2-40GS-00-1, -40WD-00-1 and applicable system -GS-00-1, WD-00-1								-	-	-	-
A4.4.3. Remove/Install TR: TOs applicable system GS-00-1 (Chapter 2)											
A4.4.3.1. Bus Connectors								-	-	-	-
A4.4.3.2. Bus Terminators								-	-	-	-
A4.4.3.3. Bus Couplers								-	-	-	-
A4.5. FLIGHT MANAGEMENT SYSTEM											
A4.5.1. Functional Theory of Operation TR: TO 1B-2A-2-22GS-00-1								A	B	-	-
A4.5.2. Perform Operational Checkout TR: TO 1B-2A-2-22JG-20-1, -40JG-10-1											
A4.5.2.1. Flight Management Control Processor (FMCP) Task 22-23-101	*							-	-	-	-
A4.5.2.2. Air Vehicle Interface Processor (AVIP) Task 23-23-101	*							-	-	-	-
A4.5.3. Fault Isolate TR: TOs 1B-2A-2-22GS-00-1, -22WD-00-1,-40GS-00-1, -40WD-00-1	*							-	-	-	-
A4.5.4. Remove/Install TR: TO 1B-2A-22JG-20-1											
A4.5.4.1. Flight Management Control Processor (FMCP) Tasks, 22-23-101, 22-24-101	*							-	-	-	-
A4.5.4.2. Air Vehicle Interface Processor (AVIP) Tasks 22-25-101, 22-26-101								-	-	-	-
A4.5.5. Processor Selective Reload/CDE TR: TO 1B-2A-2-40JG-00-1											
A4.5.5.1. Flight Management Control Processor (FMCP) Selective Reload Task 40-00-02-03	*							-	-	-	-
A4.5.5.2. Air Vehicle Interface Processor (AVIP) Selective Reload Task 40-00-02-04	*							-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Crse	CDC	Crse	CDC
A4.5.5.3. Flight Management Control Processor (FMCP) Classified Data Erase Task 40-00-01-03								-	-	-	-
A4.5.5.4. Air Vehicle Interface Processor (AVIP) Classified Data Erase Task 40-00-01-04								-	-	-	-
A4.5.5.5. System Operational Flight Program Version Change Task 40-00-02-01	*							-	-	-	-
A4.6. Terrain Following/Terrain Avoidance (TF/TA)											
A4.6.1. Functional Theory of Operation TR: TO 1B-2A-2-22GS-00-1								A	B	-	-
A4.6.2. Perform (TF/TA) Operational Checkout TR: TO 1B-2A-2-22JG-20-1, -40JG-10-1 Task 22-23-101-1; Task 40-10-22-02								-	-	-	-
A4.6.3. Fault Isolate TR: TOs 1B-2A-2-22GS-00-1, -22WD-00-1	*							-	-	-	-
A4.6.4. Remove/Install TF/TA Processor TR: TOs 1B-2A-2-22JG-20-1 Task 22-27-101; 22-28-101								-	-	-	-
A4.6.5. Processor Selective Reload/CDE TR: TO 1B-2A-2-40JG-00-1											
A4.6.5.1. TF/TA Processor Selective Reload Task 40-00-02-05								-	-	-	-
A4.6.5.2. TF/TA Processor CDE Task 40-00-01-05								-	-	-	-
A4.7. POWER DISTRIBUTION SYSTEM											
A4.7.1. Functional Theory of Operation TR: TO 1B-2A-2-24GS-00-1								A	B	-	-
A4.7.2. Fault Isolate TR: TOs 1B-2A-2-24GS-00-1, -24WD-00-1	*							-	-	-	-
A4.7.3. Operational Checks TR: 24JG-50-1, 40JG-10-1											
A4.7.3.1. Processor Control Panel (PCP) Task 24-59-101	*							-	-	-	-
A4.7.3.2. Power Control Unit (PCU) Task 40-10-24-01	*							-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Crse	CDC	Crse	CDC
A4.7.4. Remove/Install TR: TO 1B-2A-2-24JG-50-1											
A4.7.4.1. PCP Task 24-59-101	*							-	-	-	-
A4.7.4.2. PCU Tasks 24-55-101, 24-56-101, 24-57-101, 24-58-101	*							-	-	-	-
A4.8. CONTROLS AND DISPLAYS											
A4.8.1. Functional Theory of Operation TR: TO 1B-2A-3-31GS-00-1								A	B	-	-
A4.8.2. Perform Operational Checkout TR: TOs 1B-2A-2-31-JG-10-1, -31JG-30-1, -40JG-10-1											
A4.8.2.1. Multipurpose Display Unit (MDU) Task 31-10-01	*							-	-	-	-
A4.8.2.2. Cursor Control Panel (CCP) Task 31-10-01	*							-	-	-	-
A4.8.2.3. Flight Data Control Panel (FDCP) Task 31-10-01	*							-	-	-	-
A4.8.2.4. Display Processing Unit (DPU) Task 40-10-31-01	*							-	-	-	-
A4.8.2.5. Data Entry Panel (DEP) Task 40-10-31-02	*							-	-	-	-
A4.8.2.6. Disk Drive Unit (DDU) Task 40-10-31-05	*							-	-	-	-
A4.8.2.7. Disk Drive Unit Cartridge (DDUC) TR: 1B-2A-2-31JG-10-1, Task 31-18-105-1	*							-	-	-	-
A4.8.3. Fault Isolate TR: TOs 1B-2A-2-31GS-00-1, -31WD-00-1	*							-	-	-	-
A4.8.4. Remove/Install TR: TOs 1B-2A-2-31JG-10-1, -31JG-30-1, -31JG-40-1											
A4.8.4.1. MDU Task 31-16-101	*							-	-	-	-
A4.8.4.2. DEP Tasks 31-11-101, 31-12-101	*							-	-	-	-
A4.8.4.3. FDCP Task 31-17-105	*							-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Crse	CDC	Crse	CDC
A4.8.4.4. CCP Task 31-17-101	*							-	-	-	-
A4.8.4.5. DPU Tasks 31-41-101, 31-42-101, 31-43-101, 31-44-101	*							-	-	-	-
A4.8.4.6. DDU Tasks 31-18-101, 31-19-101	*							-	-	-	-
A4.8.4.7. DDUC Tasks 31-18-105, 31-19-105	*							-	-	-	-
A4.9. Video Tape Recorder (VTR) System											
A4.9.1. Functional Theory of Operation TR: TO 1B-2A-2-31GS-00-1								A	B	-	-
A4.9.2. Perform (VTR) Operational Checkout TR: TO 1B-2A-2-31JG-30-1 Task 31-36-101								-	-	-	-
A4.9.3. Fault Isolate TR: TOs 1B-2A-2-31GS-00-1, -31WD-00-1								-	-	-	-
A4.9.4. Remove/Install TR: TO 1B-2A-2-31JG-30-1											
A4.9.4.1. Video Tape Recorder Task 31-36-101								-	-	-	-
A4.9.4.2. Video Electronic Switch Task 31-36-103								-	-	-	-
A4.9.5. Clean Video Tape Recorder								-	-	-	-
A4.10. NAVIGATIONAL SYSTEMS											
A4.10.1. Inertial Navigation System (INS)											
A4.10.1.1. Functional Theory of Operation TR: TO 1B-2A-2-34GS-00-1								A	B	-	-
A4.10.1.2. Perform Operational Checkout TR; TO 1B-2A-2-34JG-40-1											
A4.10.1.2.1. Inertial Ground Alignment Task 34-42-01-1	*							-	-	-	-
A4.10.1.2.2. Coupled Ground Check Task 34-42-01-2								-	-	-	-
A4.10.1.2.3. Fault Isolate TR: TOs 1B-2A-2-34GS-00-1, -34WD-00-1		*						-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Crse	CDC	Crse	CDC
A4.10.1.3. Remove/Install TR: TO 1B-2A-2-34JG-40-1											
A4.10.1.3.1. Inertial Measurement Unit (IMU) Task 34-42-103	*							-	-	-	-
A4.10.1.3.2. Inertial Navigation Processor Task 34-42-101	*							-	-	-	-
A4.10.1.4. Processor Reload/CDE TR: TO 1B-2A-2-40JG-00-1											
A4.10.1.4.1. Inertial Processor Selective Reload Task 40-00-02-09	*							-	-	-	-
A4.10.1.4.2. Inertial Processor CDE Task 40-00-01-08	*							-	-	-	-
A4.10.2. Astro-Inertial Navigation System (AINS)											
A4.10.2.1. Functional Theory of Operation TR: TO 1B-2A-2-34GS-00-1								A	B	-	-
A4.10.2.2. Perform Operation Checkout TR: TO 1B-2A-2-34JG-40-1											
A4.10.2.2.1. AINS Ground Alignment Task 34-41-01-1	*							-	-	-	-
A4.10.2.2.2. AINS Stellar Check Task 34-41-01-1								-	-	-	-
A4.10.2.3. Fault Isolate TR: TOs 1B-2A-2-34GS-00-1, -34WD-00-1		*						-	-	-	-
A4.10.2.4. Remove/Install TR: TO 1B-2A-2-34JG-40-1											
A4.10.2.4.1. Astro-Inertial Instrument (AI) Task 34-41-101								-	-	-	-
A4.10.2.4.2. Electronics Control Unit (ECU) Task 34-41-109								-	-	-	-
A4.10.2.4.3. Navigation Processor Task 34-41-103								-	-	-	-
A4.10.2.4.4. Navigation Power Supply Task 34-41-107								-	-	-	-
A4.10.2.4.5. Airborne Time Transfer Unit (ATTU) Task 34-41-105	*							-	-	-	-
A4.10.2.5. Processor Reload/CDE TR: TO 1B-2A-2-40JG-00-1											
A4.10.2.5.1. ANIS Processor Reload Task 40-00-02-08	*							-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Crse	CDC	Crse	CDC
A4.10.2.5.2. ANIS CDE Task 40-00-01-07								-	-	-	-
A4.10.2.6. Clean and Inspect AINS Window TR: TO 1B-2A-2-12JG-40-1 Task 12-41-05								-	-	-	-
A4.10.3. Global Positioning System (GPS)											
A4.10.3.1. Functional Theory of Operation TR: TO 1B-2A-2-34GS-00-1								A	B	-	-
A4.10.3.2. Perform GPS operational checkout TR: TO 1B-2A-2-34JG-60-1 Task 34-61-01								-	-	-	-
A4.10.3.3. Fault Isolate TR: TOs 1B-2A-2-34GS-00-1, -34WD-00-1								-	-	-	-
A4.10.3.4. Remove/Install TR: TO 1B-2A-2-34JG-60-1											
A4.10.3.4.1. GPS Receiver Task 34-61-101								-	-	-	-
A4.10.3.4.2. GPS Receiver Battery Task 34-61-101-001	*							-	-	-	-
A4.10.3.4.3. GPS Antenna Task 34-61-103								-	-	-	-
A4.10.3.4.4. GPS Fill Panel Task 34-61-105								-	-	-	-
A4.10.4. TACAN (AN/ARN-500)											
A4.10.4.1. Theory of Operation TR: TO 1B-2A-2-34GS-00-1								A	B	-	-
A4.10.4.2. Perform operational check TR: TOs 1B-2A-2-23JG-50-1, -40JG-10-1 and Tasks 34-52-01; 40-10-34-02	*							-	-	-	-
A4.10.4.3. Fault Isolate TR: TOs 1B-2A-2-34GS-00-1, -34WD-00-1	*							-	-	-	-
A4.10.4.4. Remove/Install TR: TO 1B-2A-2-34JG-50-1											
A4.10.4.4.1. Receiver/Transmitter Task 34-52-101-2, -3	*							-	-	-	-
A4.10.4.4.2. Antenna Task 34-52-103-2, -3								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Crse	CDC	Crse	CDC
A4.10.5. Identification, Friend or Foe (IFF) (AN/APX-110)											
A4.10.5.1. Theory of Operation TR: TO 1B-2A-2-34GS-00-1								A	B	-	-
A4.10.5.2. Key KIV-2 Secure Computer TR: TO 1B-2A-2-34JG-50-2 Tasks 34-54-01; 40-10-34-03)	*							-	-	-	-
A4.10.5.3. Perform operational checkout TR: TOs 1B-2A-2-34JG-50-1; -40JG-10-1 Tasks 34-51-01; 40-10-34-01	*							-	-	-	-
A4.10.5.4. Fault Isolate TR: TOs 1B-2A-2-34GS-00-1; -34WD-00-1	*							-	-	-	-
A4.10.5.5. Remove/Install											
A4.10.5.5.1. Transponder Task 34-51-101-2, -3	*							-	-	-	-
A4.10.5.5.2. KIV-2 Secure computer Task 34-51-101-2, -3	*							-	-	-	-
A4.10.5.5.3. Upper antenna Task 34-51-103-2, -3								-	-	-	-
A4.10.5.5.4. Lower antenna Task 34-51-105-2, -3								-	-	-	-
A4.10.6. X Band Beacon											
A4.10.6.1. Theory of Operation TR: TO 1B-2A-2-34GS-00-1								A	B	-	-
A4.10.6.2. Perform operational checkout TR: TO 1B-2A-2-34JG-50-1; -40JG-10-1 Tasks 34-54-01, 40-10-34-03	*							-	-	-	-
A4.10.6.3. Fault Isolate TR: TOs 1B-2A-2-34GS-00-1; -34WD-00-1		*						-	-	-	-
A4.10.6.4. Remove/Install Transponder TR: TO 1B-2A-2-34JG-50-1 Task 34-54-10-2, -3								-	-	-	-
A4.10.7. Ku-Band Transponder											
A4.10.7.1. Theory of Operation TR: TO 1B-2A-2-34GS-00-1								A	B	-	-
A4.10.7.2. Perform Operational Checkout TR: TOs 1B-2A-2-34JG-50-1; -40JG-10-1 Tasks 34-50-01; 40-10-34-04	*							-	-	-	-
A4.10.7.3. Fault Isolate TR: TOs 1B-2A-2-34GS-00-1, -34WD-00-1		*						-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Crse	CDC	Crse	CDC
A4.10.7.4. Remove/Install TR: TO 1B-2A-2-34JG-50-1											
A4.10.7.4.1. Upper Transponder #1 Task 34-53-101-2, -3								-	-	-	-
A4.10.7.4.2. Lower Transponder #2 Task 34-53-101-2, -3								-	-	-	-
A4.10.7.4.3. Upper Antenna #1 Task 34-53-10-2, -3								-	-	-	-
A4.10.8. Instrument Landing System (ILS) (AN/ARN-147)											
A4.10.8.1. Theory of Operation TR: TO 1B-2A-2-34GS-00-1								A	B	-	-
A4.10.8.2. Perform operational checkout TR: TO 1B-2A-2-34JG-30-1	*							-	-	-	-
A4.10.8.3. Fault Isolate TR: TOs 1B-2A-2-34GS-00-1, -34WD-00-1		*						-	-	-	-
A4.10.8.4. Remove/Install TR: TO 1B-2A-2-34JG-30-1								-	-	-	-
A4.10.8.4.1. Receiver Task 34-31-101-2, -3	*							-	-	-	-
A4.10.8.4.2. Localizer/Glide slope antenna Task 34-31-103-2, -3								-	-	-	-
A4.10.8.4.3. Marker/Beacon antenna Task 34-31-105-2, -3								-	-	-	-
A4.10.8.4.4. Antenna splitters Task 34-31-107-2, -3								-	-	-	-
A4.10.8.4.5. Localizer/Glide slope antenna Task 34-31-103-2, -3								-	-	-	-
A4.10.8.4.6. Marker Beacon antenna Task 34-31-105-2, -3								-	-	-	-
A4.10.8.5. Antenna splitters Task 34-31-107-2, -3								-	-	-	-
A4.11. MISSION MANAGEMENT SYSTEM											
A4.11.1. Functional Theory of Operation TR: TOs 1B-2A-2-94GS-00-1								A	B	-	-
A4.11.2. Perform Operational Checkout TR: TOs 1B-2A-2-94JG-10-1, -94JG-30-1											
A4.11.2.1. Stores Management Processor Task 94-11-103-1	*							-	-	-	-
A4.11.2.2. Power Drive Unit Controller (PDUC) Task 94-32-107								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Crse	CDC	Crse	CDC
A4.11.3. Fault Isolate TR: TOs 1B-2A-2-94GS-00-1, -94WD-00-1		*						-	-	-	-
A4.11.4. Remove/Install TR: TOs 1B-2A-2-94JG-10-1, -30-1, -90-1											
A4.11.4.1. Stores Management Processor (SMP) Task 94-11-103								-	-	-	-
A4.11.4.2. Power Drive Unit Controller (PDUC) Task 94-32-107								-	-	-	-
A4.11.4.3. Power Drive Controller (PDC) Task 94-91-101								-	-	-	-
A4.11.5. Processor Reload/CDE TR: TO 1B-2A-2-40JG-00-1											
A4.11.5.1. SMP Selective Reload Task 40-00-02-12	*							-	-	-	-
A4.11.5.2. SMP CDE Task 40-00-01-11	*							-	-	-	-
A4.12. RADAR SYSTEMS											
A4.12.1. RADAR SYSTEM											
A4.12.1.1. Functional Theory of Operation TR: TO 1B-2A-2-99GS-00-1								A	B	-	-
A4.12.1.2. Perform operational checkout TR: TOs 1B-2A-2-40JG-10-1, -99WD-00-1											
A4.12.1.2.1. Radar Selective GRT Task 40-10-99-01	*							-	-	-	-
A4.12.1.2.2. Radar Ground Radiate Test Task 99-70-04	*							-	-	-	-
A4.12.1.3. Fault Isolate TR: TOs 1B-2A-2-99GS-00-1, -99WD-00-1		*						-	-	-	-
A4.12.1.4. Remove/Install TR: TO 1B-2A-2-99JG-70-1											
A4.12.1.4.1. Radar Data Processor (RDP) Tasks 99-71-111, 99-72-111	*							-	-	-	-
A4.12.1.4.2. Radar Signal Processor (RSP) Tasks 99-71-113, 99-72-113	*							-	-	-	-
A4.12.1.4.3. Radar Transmitter (R/T) Tasks 99-71-107, 99-72-107	*							-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Crse	CDC	Crse	CDC
A4.12.1.4.4. Receiver/Exciter (R/E) Tasks 99-71-109, 99-72-109	*							-	-	-	-
A4.12.1.4.5. Antenna Task 99-73-101-2, -3								-	-	-	-
A4.12.1.4.6. Motion Sensor Set (MSS) Task 99-74-101								-	-	-	-
A4.12.1.4.7. Antenna Line Replaceable Modules (LRM) TR: TO 1B-2A-2-99JG-70-1											
A4.12.1.4.7.1. Built-In-Test (BIT) Module (A25) Task 99-73-101-003								-	-	-	-
A4.12.1.4.7.2. Beam Steering Controller (BSC) Power Converter Module (A28) Task 99-73-101-005								-	-	-	-
A4.12.1.4.7.3. Antenna Solenoid Driver Power Supply Module (A29) Task 99-73-101-005								-	-	-	-
A4.12.1.4.7.4. Antenna Rotary Driver Module (A1) Task 99-73-101-001								-	-	-	-
A4.12.1.4.7.5. Antenna Electro-Magnetic (EM) Driver Module (A3) Task 99-73-101-001								-	-	-	-
A4.12.1.4.7.6. Antenna Electro-Magnetic (EM) Timing and Control Module (A23) Task 99-73-101-001								-	-	-	-
A4.12.1.4.7.7. Phase Generator Module (A24) Task 99-73-101-001								-	-	-	-
A4.12.1.4.7.8. Linear Regulator Module (A21) Task 99-73-101-001								-	-	-	-
A4.12.1.4.7.9. Microprocessor/1553 Module (A22) Task 99-73-101-001								-	-	-	-
A4.12.1.4.8. Waveguide Sections TR: TO 1B-2A-2-99GS-00-1 (Chapter 2)								-	-	-	-
A4.12.1.4.9. Waveguide Switch Task 99-73-103								-	-	-	-
A4.12.1.4.10. 10 Micron Waveguide Desiccator/Filter TR: 1B-2A-99JG-70	*							-	-	-	-
A4.12.1.5. Waveguide											
A4.12.1.5.1. Inspect and Service Desiccant Task 99-70-03	*							-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Crse	CDC	Crse	CDC
A4.12.1.5.2. Waveguide Leak Check Task 99-70-03	*							-	-	-	-
A4.12.1.6. Perform Radar Calibration TR: TO 1B-2A-2-99JG-70-1 Task 99-70-02	*							-	-	-	-
A4.12.1.7. Perform Radar Data Processor OFP Reload TR: TO 1B-2A-2-99JG-70-1 Task 90-70-06		*						-	-	-	-
A4.12.2. Radar Altimeter (RALT)											
A4.12.2.1. Functional Theory of Operation TR: TO 1B-2A-2-34GS-00-1								A	B	-	-
A4.12.2.2. Perform operational checkout TR: TOs 1B-21-2-34JG-10-1, -40JG-10-1								-	-	-	-
A4.12.2.2.1. Radar Altimeter operation check Task 34-10-01								-	-	-	-
A4.12.2.2.2. Radar Altimeter GRT Task 40-10-34-05								-	-	-	-
A4.12.2.3. Fault Isolate TR: TOs 1B-2A-2-34GS-00-1, -34WD-00-1								-	-	-	-
A4.12.2.4. Remove/Install TR: TO 1B-2A-2-34JG-10-1											
A4.12.2.4.1. Receiver/Transmitter (RT) Tasks 34-11-101, 34-12-101								-	-	-	-
A4.12.2.4.2. Antenna Tasks 34-11-105, 34-12-105								-	-	-	-
A4.12.2.4.3. RF Coupler Tasks 34-11-103, 34-12-103								-	-	-	-
A4.13. COMMUNICATION SYSTEMS ORGANIZATIONAL LEVEL MAINTENANCE											
A4.13.1. Intercommunication System (ICS) (AN/AIC-35)											
A4.13.1.1. Theory of Operation TR: TO 1B-2A-2-23GS-00-1								A	B	-	-
A4.13.1.2. Perform operational checkout TR: TOs 1B-2A-2-23JG-40-1; -40JG-10-1								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Crse	CDC	Crse	CDC
A4.13.1.2.1. Crew Intercom Task 23-40-01, 40-10-23-3								-	-	-	-
A4.13.1.2.2. Maintenance Station Intercom Unit Task 23-40-03	*							-	-	-	-
A4.13.1.3. Fault Isolate TR: TOs 1B-2A-2-23GS-00-1; -23WD-00-1		*						-	-	-	-
A4.13.1.4. Remove/Install TR: TO 1B-2A-2-23JG-40-1											
A4.13.1.4.1. Audio Control Panel Task 23-41-103-2, -3								-	-	-	-
A4.13.1.4.2. Audio Central Distribution Unit Task 23-41-101-2, -3	*							-	-	-	-
A4.13.2. AN/ARC-215 UHF/VHF System											
A4.13.2.1. Theory of Operation TR: TO 1B-2A-2-23GS-00-1								A	B	-	-
A4.13.2.2. Perform operational checkout TR: TOs 1B-2A-2-23JG-20-1; -40JG-10-1, Task 23-20-01; 40-10-23-01, 23-22-107-1	*							-	-	-	-
A4.13.2.3. Fault Isolate TR: TOs 1B-2A-2-23GS-00-1, -23WD-00-1	*							-	-	-	-
A4.13.2.4. Remove/Install											
A4.13.2.4.1. UHF/VHF Receiver/Transmitter Task 23-21-101-2, -3								-	-	-	-
A4.13.2.4.2. UHF/VHF/X Band Deployable Antenna Task 23-22-109-2, -3	*							-	-	-	-
A4.13.2.4.3. UHF/VHF/X Band Antenna Actuator Task 23-22-107-2, -3		*						-	-	-	-
A4.13.2.4.4. UHF/VHF/X Band Deployable Antenna Mechanism Task 23-22-11-2, -3								-	-	-	-
A4.13.2.4.5. UHF/VHF/X Band Deployable Antenna Proximity Sensor Task 23-22-113-2, -3								-	-	-	-
A4.13.2.5. Adjustment UHF/VHF/X Band Deployable Antenna TR: TO 1B-2A-2-23JG-20-2 and Task 23-22-109-5								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Crse	CDC	Crse	CDC
A4.13.2.6. UHF Upper/Lower antenna Tasks 23-21-103-2, -3; 23-21-105-2, -3								-	-	-	-
A4.13.2.7. KY-58 Computer Task 23-21-111-2, -3		*						-	-	-	-
A4.13.3. KY-58 Batteries		*						-	-	-	-
A4.13.4. CYZ-10 Common Fill Device TR: AFKAO-10A	*							-	-	-	-
A4.13.5. AFSATCOM System (AN/ASC-36)											
A4.13.5.1. Theory of Operation TR: TO 1B-2A-2-23GS-00-1								A	B	-	-
A4.13.5.2. Perform operational checkout TR: TOs 1B-2A-2-23JG-20-1, -40JG-10-1 and Tasks 23-20-01, 40-10-23-04	*							-	-	-	-
A4.13.5.3. Fault Isolate TR: TOs 1B-2A-2-23GS-00-1, -23WD-00-1		*						-	-	-	-
A4.13.5.4. Remove/Install TR: TO 1B-2A-2-23JG-20-1											
A4.13.5.4.1. UHF AFSATCOM Receiver/ Transmitter/ Modem Task 23-21-101-2, -3	*							-	-	-	-
A4.13.5.4.2. Preamplifier/switch Task 23-23-105-2, -3								-	-	-	-
A4.13.5.4.3. RF Load Task 23-23-107-2, -3								-	-	-	-
A4.13.5.4.4. Antenna Task 23-23-105-2, -3								-	-	-	-
A4.13.6. HF System (AN/ARC-211)											
A4.13.6.1. Theory of Operation TR: TO 1B-2A-2-23GS-00-1								A	B	-	-
A4.13.6.2. Perform operational checkout TR: TOs 1B-2A-2-23JG-00-1, -40JG-10-1 Tasks 23-10-01; -40-10-23-02	*							-	-	-	-
A4.13.6.3. Fault Isolate TR: TOs 1B-2A-2-23GS-00-1, -23WD-00-1	*							-	-	-	-
A4.13.6.4. Remove/Install TR: TO 1B-2A-2-23JG-10-1											
A4.13.6.4.1. HF Receiver/Transmitter Task 23-11-101-2, -3								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	Crse	CDC	Crse	CDC
A4.13.6.4.2. HF Antenna Task 23-11-109-2, -3								-	-	-	-
A4.13.6.4.3. Antenna coupler Task 23-11-105-2, -30		*						-	-	-	-
A4.13.6.4.4. Advanced Narrow-Band Digital Voice Terminal (ANDVT) Task 23-11-103-2, -3		*						-	-	-	-
A4.13.6.4.5. KYV-5 Remote Control Unit Task 23-11-107-2, -3								-	-	-	-
A4.14. OPERATE TEST EQUIPMENT/ SPECIAL PURPOSE EQUIPMENT											
A4.14.1. Power Meter TR: TO 33A1-7-205-1								-	-	-	-
A4.14.2. Base Time Standard TR: 9010-687 User Manual	*							-	-	-	-
A4.14.3. Memory Loader Verifier (MLV) TR: 33D7-159-1		*						-	-	-	-
A4.14.4. CYZ-10 TR: DTD User Manual	*							-	-	-	-
A4.14.5. AN/GSM-352 Antenna System Test Set								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
ATTACHMENT 5 NOTE 1: In addition to attachment 2, 3, and 4 the tasks and knowledge in this attachment will be performed by personnel in the J3ABR2A533A-002 course (B-52). NOTE 2: All course requirements are trained in the 3-level resident wartime course. The 7 level in-residence course is not taught in wartime. NOTE 3: Users are responsible for annotating training references to identify current references pending STS revision. NOTE 4: Items marked in columns 2a or 2b marked with a (*R) are optional core tasks for ANG and AFRC. NOTE 5: Address comments and recommended changes through the MAJCOM Functional Managers to the AETC Training Manager, DSN 736-2772. NOTE 6: The course will use representative aircraft/trainers to accomplish the system specific training requirements as identified by the STS.												
A5.1. GENERAL ORGANIZATIONAL MAINTENANCE TR: TOs Applicable –1 and –2 series											
A5.1.1. General Maintenance TR: TO 1B-52H-2JG-1											
A5.1.1.1. Ensure aircraft safe for maintenance Task 2-8 through 2-13	*							2b	-	-	-
A5.1.1.2. Apply external power Task 2-20	*							2b	-	-	-
A5.1.1.3. Apply external air conditioning Task 2-26	*							2b	-	-	-
A5.2. CONTROLS AND DISPLAYS (CAD)											
A5.2.1. Functional Theory of Operation								B	B	-	-
A5.2.2. Perform Operational Checkout											
A5.2.2.1. Power Application and Turn-On Task 3-5-1								2b	-	-	-
A5.2.2.2. Integrated keyboard Task 3-5-2								2b	-	-	-
A5.2.2.3. RNMP Task 3-5-3								2b	-	-	-
A5.2.2.4. DEU Task 3-5-3A								2b	-	-	-
A5.2.2.5. MIU Power Switch Task 3-5-4								-	-	-	-
A5.2.2.6. Shutdown Task 3-5-5								2b	-	-	-
A5.2.3. Fault Isolate TR: TOs 1B-52H-2-34JG- (series)	*							2b	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.2.4. Remove/Install											
A5.2.4.1. Computer Control Panel TR: TOs 1B-52H-2-34JG-1 Tasks 2-14, 2-15								-	-	-	-
A5.2.4.2. Controls and Displays Interface unit TR: TOs 1B-52H-2-34JG-3 Tasks 3-8, 3-9								-	-	-	-
A5.2.4.3. Display Electronics Unit TR: TOs 1B-52H-2-34JG-3 Tasks 3-10, 3-11								-	-	-	-
A5.2.4.4. Navigator Integrated Keyboard TR: TOs 1B-52H-2-34JG-3 Tasks 3-12, 3-13								-	-	-	-
A5.2.4.5. Radar Navigator Integrated Keyboard TR: TOs 1B-52H-2-34JG-3 Tasks 3-14, 3-15								-	-	-	-
A5.2.4.6. Navigator Multifunction Display TR: TOs 1B-52H-2-34JG-3 Tasks 3-16, 3-17								-	-	-	-
A5.2.4.7. Radar Navigator Multifunction Display TR: TOs 1B-52H-2-34JG-3 Tasks 3-18, 3-19								-	-	-	-
A5.2.4.8. Radar Navigator Management Panel TR: TOs 1B-52H-2-34JG-3 Tasks 3-20, 3-21								-	-	-	-
A5.2.4.9. OAS Power Control Panel TR: TOs 1B-52H-2-34JG-3 Tasks 3-22, 3-23								-	-	-	-
A5.2.5. Ground Maintenance Computer Program (GMCP)											
A5.2.5.1. GMCP for fault data retrieval TR: TOs 1B-52H-2-33MS-1, -34MS-1, -44MS-1								A	-	-	-
A5.2.5.2. GMCP Fault Data Retrieval Reports for fault isolation of aircraft malfunctions TR: TOs 1B-52H-2-33MS-1, -34MS-1, -44MS-1								A	-	-	-
A5.3. ON-BOARD RADAR SYSTEMS											
A5.3.1. Strategic Radar (AN/APQ-166)											
A5.3.1.1. Functional Theory of Operation TR: TOs 1B-52H-44GA-1, -44MS-1								A	B	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.3.1.2. Perform Flightline Preliminary Procedures TR: TOs 1B-52H-2-44JG-1											
A5.3.1.2.1. Physical inspection of Radome Area Task 2-7-1								2b	-	-	-
A5.3.1.2.2. Physical inspection of Navigator's Area Task 2-7-2								2b	-	-	-
A5.3.1.2.3. Preoperational control settings Task 2-8								2b	-	-	-
A5.3.1.2.4. Ground cooling and system power application Task 2-9	*							2b	-	-	-
A5.3.1.2.5. Computational System initialization Task 2-10-1	*							2b	-	-	-
A5.3.1.2.6. Computational System shudown Task 2-10-2	*							2b	-	-	-
A5.3.1.2.7. Special functions initialization Task 2-11-1								2b	-	-	-
A5.3.1.2.8. End-of-test option Task 2-11-2								-	-	-	-
A5.3.1.2.9. System and cooling shutdown Task 2-12	*							2b	-	-	-
A5.3.1.2.10. Open Nose Radome Task 2-13	*							2b	-	-	-
A5.3.1.2.11. Close Nose Radome Task 2-14	*							2b	-	-	-
A5.3.1.3. Perform limited operational checkout TR: TOs 1B-52H-2-44JG-1, -2											
A5.3.1.3.1. Pressurization system Task 2-17								-	-	-	-
A5.3.1.3.2. Overheat Warning System Task 2-18								-	-	-	-
A5.3.1.3.3. Antenna Azimuth Scan Task 2-19								-	-	-	-
A5.3.1.3.4. TA Doppler Drift Check Task 2-20								-	-	-	-
A5.3.1.3.5. Antenna Tilt Task 2-21		*						2b	-	-	-
A5.3.1.3.6. 180-degree Phase Shifter Accuracy Task 2-22		*						2b	-	-	-
A5.3.1.3.7. Terrain Display Control Panel (TDCP) Task 2-23								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.3.1.3.8. Radar Presentation Panel (RPP) interface Task 2-24								2b	-	-	-
A5.3.1.3.9. Radar Control Test Panel (RCTP) Task 2-25								-	-	-	-
A5.3.1.3.10. Receiver Transmitter Modulator (RTM) Task 2-26	*							2b	-	-	-
A5.3.1.3.11. Radar Processor (RP) Task 2-27	*							-	-	-	-
A5.3.1.3.12. Display Generator (DG) Task 2-28	*							-	-	-	-
A5.3.1.3.13. Pressurization system check								-	-	-	-
A5.3.1.3.14. Flight Computer Program (FCP)								2b	-	-	-
A5.3.1.3.15. Perform Tie-in and associated equipment											
A5.3.1.3.15.1. AN/APN-69 System TR: TOs 1B-52H-2-44JG-2 Task 2-29								-	-	-	-
A5.3.1.3.15.2. Attitude Heading Reference System (AHRS) Interface TR: TOs 1B-52H-2-44JG-2 Task 2-30								-	-	-	-
A5.3.1.3.15.3. Autopilot System Interface TR: TOs 1B-52H-2-44JG-2 Task 2-31								-	-	-	-
A5.3.1.3.15.4. Computational System Display Interface TR: TOs 1B-52H-2-44JG-2 Task 2-32								2b	-	-	-
A5.3.1.3.15.5. Bomb Circuits Interface TR: TOs 1B-52H-2-44JG-2		*						-	-	-	-
A5.3.1.3.15.6. ECM Blanking Interface TR: TOs 1B-52H-2-44JG-2								-	-	-	-
A5.3.1.4. Verify systems operation – Complete operational checks											
A5.3.1.4.1. Navigator Station Strategic Radar Checkout TR: TOs 1B-52H-2-44JG-3								-	-	-	-
A5.3.1.4.2. Support Systems Task 2-37-1								2b	-	-	-
A5.3.1.4.3. Antenna Tilt Stabilization Task 2-37-2		*						2b	-	-	-
A5.3.1.4.4. Display Azimuth Reference Task 2-37-3								2b	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.3.1.4.5. Display Azimuth Scan Task 2-37-4								2b	-	-	-
A5.3.1.4.6. Operational check out Task 2-37-5								2b	-	-	-
A5.3.1.5. Service Pressurization Systems TR: TO 1B-52H-2-44JG-4											
A5.3.1.5.1. Dehydrator Disassembly/Removal Task 2-36-1								-	-	-	-
A5.3.1.5.2. Dehydrator Cleaning Task 2-36-2								-	-	-	-
A5.3.1.5.3. Dehydrator Filling and Reassembly/ Installation Task 2-36-3								-	-	-	-
A5.3.1.6. Service Filter and Air Dryer TR: TOs 1B-52H-2-44JG-4											
A5.3.1.6.1. Remove and Disassemble Task 3-37-1								-	-	-	-
A5.3.1.6.2. Clean, re-assemble and install Task 2-37-2								-	-	-	-
A5.3.1.7. Fault Isolate STRAT Radar AN/APQ-166 TR: TOs 1B-52H-2-44 (series)		*						2b	-	-	-
A5.3.1.8. Align/Adjust systems											
A5.3.1.8.1. Nose Radome boresight marking TR: TOs 1B-52H-2-44JG-3 Task 2-38-4								-	-	-	-
A5.3.1.9. Remove and Install											
A5.3.1.9.1. Receiver-Transmitter Modulator (RTM) TR: TOs 1B-52H-2-44JG-3 Tasks 3-6, 3-7	*							2b	-	-	-
A5.3.1.9.2. Radar Antenna TR: TOs 1B-52H-2-44JG-4 Tasks 3-12, 3-13	*							2b	-	-	-
A5.3.1.9.3. Tilt Actuator TR: TOs 1B-52H-2-44JG-4 Tasks 3-14, 3-15								-	-	-	-
A5.3.1.9.4. Waveguide Assemblies TR: TOs 1B-52H-2-44JG-3								-	-	-	-
A5.3.1.9.5. SR 180-degree phase shifter TR: TOs 1B-52H-2-44JG-3 Tasks 3-10, 3-11								-	-	-	-
A5.3.1.9.6. Radar Pressurization Units TR: TOs 1B-52H-2-44JG-4								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.3.1.9.7. Antenna Position Programmer TR: TOs 1B-52H-2-44JG-4 Tasks 3-22, 3-23								2b	-	-	-
A5.3.1.9.8. Radar Interface Unit TR: TOs 1B-52H-2-44JG-4 Tasks 3-24, 3-25								-	-	-	-
A5.3.1.9.9. Radar Scan Converter TR: TOs 1B-52H-2-44JG-4 Tasks 3-26, 3-27								-	-	-	-
A5.3.1.9.10. Radar Control Test Panel TR: TOs 1B-52H-2-44JG-4 Tasks 3-28, 3-29								-	-	-	-
A5.3.1.9.11. Radar Presentation Panel TR: TOs 1B-52H-2-44JG-4 Tasks 3-32, 3-33								2b	-	-	-
A5.3.1.9.12. Radar Pressure Control Panel TR: TOs 1B-52H-2-44JG-4 Tasks 3-34, 3-35								-	-	-	-
A5.3.2. Terrain Avoidance (TA)											
A5.3.2.1. Functional Theory of Operation TR: TO 1B-52H-2-44GA								B	B	-	-
A5.3.2.2. Perform Pilot Station TA Checkout TR: TOs 1B-52H-2-44JG-3											
A5.3.2.2.1. TA Failure Warning Checkout Task 2-38-1								1a	-	-	-
A5.3.2.2.2. TA Verification Test Setup Task 2-38-2								1a	-	-	-
A5.3.2.2.3. TA System Verification Task 2-38-3								1a	-	-	-
A5.3.2.3. Fault Isolate Terrain Avoidance TR: TOs 1B-52H-2-44MS-1, -2		*						-	-	-	-
A5.3.2.4. Remove and Install											
A5.3.2.4.1. Radar Processor TR: TOs 1B-52H-2-44JG-4 Tasks 3-18, 3-19								-	-	-	-
A5.3.2.4.2. Display Generator TR TOs 1B-52H-2-44JG-4 Tasks 3-20, 3-21								-	-	-	-
A5.3.2.4.3. Terrain Display Control Panel TR: TOs 1B-52H-2-44JG-4 Tasks 3-30, 3-31								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.3.3. Radar Altimeters AN/APN-224											
A5.3.3.1. Functional Theory of Operation 1B-52H-2-35GA-1								A	B	-	-
A5.3.3.2. Perform Operation Checkout 1B-52H-2-35JG-1											
A5.3.3.2.1. Power off check Task 2-5-1								-	-	-	-
A5.3.3.2.2. Operational Checkout Task 2-10-1								-	-	-	-
A5.3.3.3. Fault Isolation								-	-	-	-
A5.3.3.4. Remove/Install 1B-52H-2-35JG-1											
A5.3.3.4.1. Receiver/Transmitter Task 2-17-1								-	-	-	-
A5.3.3.4.2. Antenna Task 2-19-1								-	-	-	-
A5.3.3.4.3. Altimeters Task 2-15-1								-	-	-	-
A5.3.4. Radar Beacon AN/APN-69 TR: 1B-52H-2-25GA-1											
A5.3.4.1. Functional Theory of Operation TR: 1B-52H-2-25GA-1								A	-	-	-
A5.3.4.2. Perform Operation Checkout TR: 1B-52H-25JG-2											
A5.3.4.2.1. Fast Operational Checkout Task 6-5-1								-	-	-	-
A5.3.4.2.2. Complete Operational Checkout Task 6-6-1								-	-	-	-
A5.3.4.3. Fault Isolation TR: 1B-52H-2-25MS-2								-	-	-	-
A5.3.4.4. Remove/Install TR: 1B-52H-2-25JG-2											
A5.3.4.4.1. Control Panel Task 6-11-1								-	-	-	-
A5.3.4.4.2. Receiver Transmitter Task 6-13-1								-	-	-	-
A5.3.4.4.3. Antenna Task 6-19-1								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.3.5. Doppler											
A5.3.5.1. Functional Theory of Operation 1B-52H-2-21GA-1								A	B	-	-
A5.3.5.2. Perform Operation Checkout 1B-52H-2-21JG-1											
A5.3.5.2.1. Power Off Check Task 2-3-1								-	-	-	-
A5.3.5.2.2. Operational Checkout Task 2-10-1								-	-	-	-
A5.3.5.3. Fault Isolation											
A5.3.5.3.1. GSDI Task 2-17-1								-	-	-	-
A5.3.5.3.2. Doppler Velocity Sensor Task 2-19-1								-	-	-	-
A5.4. BUS AND MULTIPLEXING SYSTEMS 1553A Data Bus System											
A5.4.1. Functional Theory of Operation TR: TO 1B-52H-2-34GA								A	B	-	-
A5.4.2. Fault Isolate TR: TO 1B-52H-2-34GA, -34MS-1, -2								2b	-	-	-
A5.4.3. Remove and Install Bus Couplers								-	-	-	-
A5.5. Computational Subsystem/Offensive Avionics System (OAS)											
A5.5.1. Functional Theory of Operation TR: TO 1B-52H-2-34GA-1, -34MS-1								A	B	-	-
A5.5.2. Perform Operational Checkout TR: TO 1B-52H-2-34JG-1											
A5.5.2.1. Power Application ACU and CCP checkout (Task 2-5-1)								2b	-	-	-
A5.5.2.2. DTU checkout (Task 2-5-2)								2b	-	-	-
A5.5.2.3. Computer Control Panel (Task 2-5-2A)								2b	-	-	-
A5.5.2.4. Shutdown (Task 2-5-3)								2b	-	-	-
A5.5.2.5. ACU checkout (Task 2-5-4)								2b	-	-	-
A5.5.3. Fault Isolate TR: TOs 1B-52H-2-34 (series)		*						2b	-	-	-
A5.5.4. Remove/Install											
A5.5.4.1. Avionics Control Unit (ACU) TR: TOs 1B-52H-2-34JG-1 Tasks 2-5 thru 2-13								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.5.4.2. Computer Control Panel TR: TOs 1B-52H-2-34JG-1 Tasks 2-14, 2-15								-	-	-	-
A5.5.4.3. Data Transfer Control Unit #1 TR: TOs 1B-52H-2-34JG-1 Tasks 2-16, 2-17								-	-	-	-
A5.5.4.4. Data Transfer Control Unit #2 TR: TOs 1B-52H-2-34JG-1 Tasks 2-18, 2-19								-	-	-	-
A5.5.4.5. Data Transfer Unit Cartridge Mount #1 TR: TOs 1B-52H-2-34JG-1 Tasks 2-20, 2-21								-	-	-	-
A5.5.4.6. Data Transfer Unit Cartridge Mount #2 TR: TOs 1B-52H-2-34JG-1 Task 2-22, 2-23								-	-	-	-
A5.6. NAVIGATIONAL SYSTEMS											
A5.6.1. Inertial Navigation Set (INS) AN/ASQ-136											
A5.6.1.1. Functional Theory of Operation TR: TOs 1B-52H-2-34GA-1, -33MS-1								A	B	-	-
A5.6.1.2. Perform Operational Checkout TR: TO 1B-2A-2-34JG-40-1											
A5.6.1.2.1. Preparation (Task 2-7-1)								2b	-	-	-
A5.6.1.2.2. GMCP Loading (Task 2-7-2)								2b	-	-	-
A5.6.1.2.3. Initialization and IME (Task 2-7-4)								2b	-	-	-
A5.6.1.2.4. Shutdown (Task 2-7-3)								2b	-	-	-
A5.6.1.2.5. INS/OAS Position Drift Check Task 2-8	*							1a	-	-	-
A5.6.1.2.6. Fault Isolate TR: TOs 1B-52H-2-33 (series)	*							2b	-	-	-
A5.6.1.3. Remove/Install											
A5.6.1.3.1. Inertial Measurement Unit (IMU) TR: TOs 1B-52H-2-33JG-1 Tasks 3-3, 3-4	*							-	-	-	-
A5.6.1.3.2. Interface Electronics Units (IEU) TR: TOs 1B-52H-2-33JG-1 Tasks 3-5, 3-6								-	-	-	-
A5.6.1.3.3. Rotor Support Power Adapter (RSPA) TR: TOs 1B-52H-2-33JG-1								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.6.2. Tactical Air Navigation (TACAN) AN/ARN-118 TR: 1B-52H-2-25GA-1											
A5.6.2.1. Functional Theory of Operation 1B-52H-2-25GA-1								A	B	-	-
A5.6.2.2. Perform Operational Checkout TR: 1B-52H-2-25JG-1 Task 5-5-2, 5-8-1	*							2b/b	-	-	-
A5.6.2.3. Fault Isolation 1B-52H-2-25MS-2								2b/b	-	-	-
A5.6.2.4. Remove/Install 1B-52H-2-25JG-2											
A5.6.2.4.1. Control Panel Task 5-18-1								-	-	-	-
A5.6.2.4.2. Receiver Transmitter Task 5-12-1, 5-13-1	*							2b/b	-	-	-
A5.6.2.4.3. Antenna Task 5-22-1								-	-	-	-
A5.6.2.4.4. TACAN Relay Shield Task 5-20-1								-	-	-	-
A5.6.2.4.5. Adapter MX Task 5-16-1								-	-	-	-
A5.6.3. VHF Omni Range (VOR) AN/ARN-14 TR: 1B-52H-2-25GA-1											
A5.6.3.1. Functional Theory of Operation TR: 1B-52H-2-25GA-1								B	B	-	-
A5.6.3.2. Perform Operational Checkout TR: 1B-52H-2-25JG-1											
A5.6.3.2.1. Fast Operational Checkout Task 3-3-1								2b/b	-	-	-
A5.6.3.2.2. Fast Checkout Task 3-5-1								-	-	-	-
A5.6.3.3. Fault Isolation TR: 1B-52H-2-25MS-1								2b/b	-	-	-
A5.6.3.4. Remove/Install TR: 1B-52H-2-25JG-1											
A5.6.3.4.1. Control Panel Task 3-15-1								-	-	-	-
A5.6.3.4.2. Receiver Task 3-13-1								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.6.3.4.3. Antenna Task 3-12-1								-	-	-	-
A5.6.4. Glidepath Radio AR/ARN 31/67											
A5.6.4.1. Functional Theory of Operation TR: 1B-52H-2-25GA-1								B	B	-	-
A5.6.4.2. Perform Operational Checkout TR: 1B-52H-2-25JG-1											
A5.6.4.2.1. Fast Operational Checkout Task 3-3-1								2b/b	-	-	-
A5.6.4.2.2. Complete Operational Checkout Task 3-6-1								-	-	-	-
A5.6.4.3. Fault Isolation								-	-	-	-
A5.6.4.4. Remove/Install TR: 1B-52H-2-25JG-1											
A5.6.4.4.1. Antenna Task 4-10-1								-	-	-	-
A5.6.4.4.2. Receiver Task 4-8-1								-	-	-	-
A5.6.5. Marker Beacon Radio											
A5.6.5.1. Functional Theory of Operation TR: 1B-52H-2-25GA-1								B	B	-	-
A5.6.5.2. Perform Operational Checkout TR: 1B-52H-2-25JG-1, Task 2-3-1								2b/b	-	-	-
A5.6.5.3. Fault Isolation								-	-	-	-
A5.6.5.4. Remove/Install TR: 1B-52H-2-25JG-1											
A5.6.5.4.1. Receiver Task 2-8-1								-	-	-	-
A5.6.5.4.2. Antenna Task 2-10-1								-	-	-	-
A5.6.6. Global Positioning System (GPS)											
A5.6.6.1. Functional Theory of Operation TR: 1B-52H-2-25GA-1								A	B	-	-
A5.6.6.2. Perform Operational Checkout TR: 1B-52H-2-25JG-4											
A5.6.6.2.1. Complete Operational Checkout Task 8-6-1	*							2b	-	-	-
A5.6.6.2.2. Fast Checkout Task 8-3-1	*							-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.6.6.3. Fault Isolation								-	-	-	-
A5.6.6.4. Remove/Install TR: 1B-52H-2-25JG-4											
A5.6.6.4.1. IU Power Panel Task 8-24A-1								-	-	-	-
A5.6.6.4.2. Programmable Keyboard Task 8-25-1								-	-	-	-
A5.6.6.4.3. Interface Unit Task 8-21-1								-	-	-	-
A5.6.6.4.4. Antenna Task 8-15-1								-	-	-	-
A5.6.6.4.5. Receiver Task 8-19-1	*							-	-	-	-
A5.7. VIDEO PROCESSING AND RECORDING											
A5.7.1. Airborne Video Tape Recorder (AVTR) System											
A5.7.1.1. Functional Theory of Operation TR: TOs 1B-52H-2-41, 12S6-2AXQ-12								A	A	-	-
A5.7.1.2. Perform Operational Checkout TR: TOs 1B-52H-2-41								-	-	-	-
A5.7.1.3. Fault Isolate TR: TOs 1B-52H-2-41, 12S6-2AXQ-12								-	-	-	-
A5.7.1.4. Remove/Install AVTR TR: TOs 1B-52H-2-41 (Section VI)								-	-	-	-
A5.7.2. Remote Control Unit (RCU)											
A5.7.2.1. Functional Theory of Operation TR: TOs 1B-52H-2-41, 12S5-4-53-2								A	A	-	-
A5.7.2.2. Perform Operational Checkout TR: TOs 1B-52H-2-41								-	-	-	-
A5.7.2.3. Fault Isolate TR: TOs 1B-52H-2-41, 12S5-4-53-2								-	-	-	-
A5.7.2.4. Remove/Install RCU TR: TOs 1B-52H-2-41 (Section VI)								-	-	-	-
A5.8. Electro-optical Viewing System (EVS) AN/ASQ-151											
A5.8.1. Functional Theory of Operation TR: TOs 1B-52H-2-41											
A5.8.1.1. Steerable Television (STV)								A	B	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.8.1.2. Forward Looking Infrared (FLIR)								A	B	-	-
A5.8.1.3. Data Presentation Group (DPG)								A	B	-	-
A5.8.1.4. Tie-In								A	B	-	-
A5.8.2. Power-off Checkout											
A5.8.2.1. Radome Area								2b	B	-	-
A5.8.2.2. Navigator's Area								2b	-	-	-
A5.8.2.3. Pilot's Area								2b	-	-	-
A5.8.2.4. Preoperational Control								2b	-	-	-
A5.8.2.5. Power Application								2b	-	-	-
A5.8.3. Perform Operational Checkout TR: TOs 1B-52H-2-41											
A5.8.3.1. Preliminary								2b	-	-	-
A5.8.3.2. OAS/EVS Startup								2b	-	-	-
A5.8.3.3. Indicator Lights System								1a	-	-	-
A5.8.3.4. STV	*							1a	-	-	-
A5.8.3.5. FLIR	*							2b	-	-	-
A5.8.3.6. Symbols								1a	-	-	-
A5.8.3.7. EVS Ancillary System tie-in checkout		*						-	-	-	-
A5.8.4. Fault Isolate TR: TOs 1B-52H-2-41, 11B31-3-4-1	*							1a	-	-	-
A5.8.5. Remove/Install											
A5.8.5.1. Video Distribution Unit (VDU) TR: TOs 1B-52H-2-41 (Section VI)								-	-	-	-
A5.8.5.2. Servo Control Unit (SCU) TR: TOs 1B-52H-2-41 (Section VI)	*							-	-	-	-
A5.8.5.3. Symbol Signal Generator (SSG) TR: TOs 1B-52H-2-41 (Section VI)								-	-	-	-
A5.8.5.4. EVS Monitors TR: TOs 1B-52H-2-41 (Section VI)								-	-	-	-
A5.8.5.5. FLIR Sensor TR: TOs 1B-52H-2-41 (Section VI)	*							2b	-	-	-
A5.8.5.6. Digital Scan Converter (DSC) TR: TOs 1B-52H-2-41 (Section VI)								-	-	-	-
A5.8.5.7. Signal Data Converter (SDC) TR: TOs 1B-52H-2-41 (Section VI)								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.8.5.8. STV camera TR: TOs 1B-52H-2-41 (Section VI)	*							-	-	-	-
A5.8.5.9. STV Camera Electronics TR: TOs 1B-52H-2-41 (Section VI)								-	-	-	-
A5.8.5.10. Gimbal Regulator Reference Unit TR: 1B-52H-2-41 (Section VI)								-	-	-	-
A5.8.5.11. Pilots NFOV switches TR: 1B-52H-2-34JG-3								-	-	-	-
A5.8.5.12. Turret Drive Motor TR: TOs 1B-52H-2-41 (Section VI)								-	-	-	-
A5.8.5.13. Turret Drive Belt TR: TOs 1B-52H-2-41 (Section VI)								-	-	-	-
A5.8.5.14. Turret Window TR: TOs 1B-52H-2-41 (Section VI)								1a	-	-	-
A5.8.5.15. Turret Bearing Assembly TR: TOs 1B-52H-2-41 (Section VI)								-	-	-	-
A5.8.6. Align/Adjust Systems											
A5.8.6.1. EVS turret drive belt tension TR: TO 1B-52H-2-41 (Section VI)								-	-	-	-
A5.8.6.2. EVS turret limit switch TR: TOs 1B-52H-2-41 (Section VI)								-	-	-	-
A5.8.7. Service Electro-optical Viewing Systems											
A5.8.7.1. Turret Window Cleaning TR: TOs 1B-52H-2-41 (Section VI)	*							-	-	-	-
A5.8.7.2. Camera and scanner mirror and lens cleaning TR: TOs 1B-52H-2-41 (Section VI)								-	-	-	-
A5.8.8. EVS Tie-ins Functional Theory of Operation TR: TOs 1B-52H-2-41								A	B	-	-
A5.9. Video Recorder (VR) Systems											
A5.9.1. Functional Theory of Operation TR: TOs 1B-52H-2-30GA, 11B36-2-3-2								A	A	-	-
A5.9.2. Perform Operational Checkout TR: TO 1B-1B-34JG-40-1											
A5.9.2.1. Video Recorder TR: TOs 2B-52H-2-30JG-2								-	-	-	-
A5.9.2.2. Video Recorder BIT check Task 3-6-1								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.9.2.3. Radar scan converter signal and out-of-film check (Task 3-6-2)								1a	-	-	-
A5.9.2.4. GMCP select test and MFD mode Check (Task 3-6-3)								-	-	-	-
A5.9.2.5. Restoration (Task 3-6-4)								-	-	-	-
A5.9.3. Fault Isolate TR: TO 1B-52H-2-30 (Series)								-	-	-	-
A5.9.4. Remove/Install TR: TOs 1B-52H-2-30JG-2											
A5.9.4.1. VR Recorder								-	-	-	-
A5.9.4.2. VR Film Magazine								-	-	-	-
A5.9.5. Load and Unload Film Magazine TR: TO 11B36-2-3-2								2b	-	-	-
A5.10. COMMUNICATIONS SYSTEMS											
A5.10.1. Interphone AIC-18 TR: 1B-52H-2-24GA-1											
A5.10.1.1. Functional Theory of Operation TR: 1B-52H-2-24GA-1								A	B	-	-
A5.10.1.2. Perform Operation Checkout TR: 1B-52H-2-24JG-1											
A5.10.1.2.1. Power off Check Task 2-6-1								-	-	-	-
A5.10.1.2.2. Pilot Station Task 2-7-1,2-7-2,2-7-3, and 2-7-14								2b	-	-	-
A5.10.1.2.3. Copilot Station Task 2-7-1,2-7-2,2-7-3, and 2-7-14								-	-	-	-
A5.10.1.2.4. Instructor Pilot Station Task 2-7-1,2-7-2,2-7-4, and 2-7-14								-	-	-	-
A5.10.1.2.5. Navigator Station Task 2-7-1,2-7-2,2-7-5, and 2-7-14								-	-	-	-
A5.10.1.2.6. Radar Navigator Station Task 2-7-1, 2-7-2, 2-7-6, and 2-7-14								-	-	-	-
A5.10.1.2.7. Instructor Navigator Station Task 2-7-1, 2-7-2, 2-7-7, and 2-7-14								-	-	-	-
A5.10.1.2.8. EW Officer Station Task 2-7-1, 2-7-2, 2-7-8, and 2-7-14								-	-	-	-
A5.10.1.2.9. Defense Instructor Station Task 2-7-1, 2-7-2, 2-7-9, and 2-7-14								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.10.1.2.10. Gunner Station Task 2-7-1, 2-7-2, 2-7-10, and 2-7-14								-	-	-	-
A5.10.1.2.11. Bunk Station Task 2-7-1, 2-7-2, 2-7-11, and 2-7-14								-	-	-	-
A5.10.1.2.12. Main External Power Receptacle Station Task 2-7-1, 2-7-12, and 2-7-14	*							-	-	-	-
A5.10.1.2.13. Forward Wheel Well Station Task 2-7-1, 2-7-13, and 2-7-14								-	-	-	-
A5.10.1.3. Fault Isolation TR:1B-52H-2-24MS-1								-	-	-	-
A5.10.1.4. Remove/Install TR: 1B-52H-2-24JG-1											
A5.10.1.4.1. Control Panel, C-2106 Task 2-10-1								-	-	-	-
A5.10.1.4.2. Control Panel, C-2105 Task 2-14-1								-	-	-	-
A5.10.1.4.3. Control Panel, C-2323 Task 2-12-1								-	-	-	-
A5.10.1.4.4. Microphone Foot Switch Task 2-18-1								-	-	-	-
A5.10.1.4.5. Control Wheel Interphone Switch Task 2-16-1								-	-	-	-
A5.10.2. UHF Command Radio AN/ARC- 164											
A5.10.2.1. Functional Theory of Operation TR: 1B-52H-2-24GA-1								B	B	-	-
A5.10.2.2. Perform Operational Checkout TR: 12B-52H-2-24JG-4											
A5.10.2.2.1. Power Off Check Task 5-5-1								-	-	-	-
A5.10.2.2.2. Fast Checkout Task 5-7-1	*							2b/b	-	-	-
A5.10.2.2.3. Fault Isolation TR: 1B-52H-2-24MS-4		*						2b/b	-	-	-
A5.10.2.3. Remove/Install TR: 1B-52H-2-24JG-4											
A5.10.2.3.1. Receiver Transmitter 1504 Task 5-12-1	*							2b/b	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.10.2.3.2. Radio Control Unit	*							2b/b	-	-	-
A5.10.2.3.3. Antenna Task 5-14-1								2b/b	-	-	-
A5.10.2.3.4. Low Pass Filter Task 5-16-1								2b/b	-	-	-
A5.10.3. HF Radio AN/ARC-190											
A5.10.3.1. Function Theory of Operation TR: 1B-52H-2-24GA-1								B	B	-	-
A5.10.3.2. Perform Operational Checkout TR: 1B-52H-2-24JG-6											
A5.10.3.2.1. Power Off Check Task 7-5-1								-	-	-	-
A5.10.3.2.2. Operational Checkout Task 7-7-1	*							2b/b	-	-	-
A5.10.3.3. Fault Isolation								2b/ b	-	-	-
A5.10.3.4. Remove/Install TR:1B-52H-2-24JG-6											
A5.10.3.4.1. Control Unit Task 7-10-1								-	-	-	-
A5.10.3.4.2. Receiver Transmitter 1341 Task 7-12-1	*							-	-	-	-
A5.10.3.4.3. Antenna Coupler Task 7-16-1								-	-	-	-
A5.10.3.4.4. Lightening Arrester Task 7-18-1								-	-	-	-
A5.10.4. VHF AM/FM Radio AN/ARC-210 TR: 1B-52H-2-24GA-1											
A5.10.4.1. Functional Theory of Operation TR: 1B-52H-2-24GA-1								B	B	-	-
A5.10.4.2. Perform Operation Checkout TR:1B-52H-2-24JG-3											
A5.10.4.2.1. Power Off Checkout Task 3A-5-1								-	-	-	-
A5.10.4.2.2. Operational Checkout Task 3A-7-1								2b/b	-	-	-
A5.10.4.3. Fault Isolation TR: 1B-52H-2-24MS-3								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.10.4.4. Remove/Install TR:1B-52H-2-24JG-3											
A5.10.4.4.1. Radio Control Unit Task 3A-13-1								-	-	-	-
A5.10.4.4.2. Switch Panel Task 3A-15-1								-	-	-	-
A5.10.4.4.3. Receiver Transmitter 1556 Task 3A-17-1								-	-	-	-
A5.10.4.4.4. Logic Converter Task 3A-19-1								-	-	-	-
A5.10.4.4.5. Coax Switch, Low Power Task 3A-21-1								-	-	-	-
A5.10.4.4.6. Antenna Task 3A-29-1								-	-	-	-
A5.10.5. Secure Voice KY-58 TR: 1B-52H-2-24GA-1											
A5.10.5.1. Functional Theory of Operation TR: 1B-52H-2-24GA-1								B	B	-	-
A5.10.5.2. Perform Operational Checkout TR: 1B-52H-2-24JG-4											
A5.10.5.2.1. Power Off Check Task 4-6-1								-	-	-	-
A5.10.5.2.2. Operational Checkout Task 4-7-1								2b/b	-	-	-
A5.10.5.3. Fault Isolation TR: 1B-52H-2-24MS-3								-	-	-	-
A5.10.5.4. Remove/Install TR: 1B-52H-2-24JG-4											
A5.10.5.4.1. Processor, KY58 Task 4-11-1	*							-	-	-	-
A5.10.5.4.2. Mode Control Task 4-15-1	*							-	-	-	-
A5.10.5.4.3. Remote Control, Z-ANP Task 4-13-1								-	-	-	-
A5.10.6. UHF/SATCOM AN/ASC-19											
A5.10.6.1. UHF Radio AN/ASC-19 TR: 1B-52H-2-24GA-1											
A5.10.6.1.2. Function Theory of Operation TR: 1B-52H-2-24GA-1								B	B	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.10.6.1.3. Perform Operational Checkout TR: 1B-52H-2-24JG-5											
A5.10.6.1.3.1. Power Off Check Task 6-7-1								2b/b	-	-	-
A5.10.6.1.3.2. Operational Checkout Task 6-9-1	*							-	-	-	-
A5.10.6.1.3.3. Satellite Mode Operational Check Task 6-10A-1								-	-	-	-
A5.10.6.1.4. Fault Isolation TR: 1B-52H-2-24MS-4								2b	-	-	-
A5.10.6.1.5. Remove/Install TR: 1B-52H-2-24JG-5											
A5.10.6.1.5.1. Control Unit Task 6-14-1								-	-	-	-
A5.10.6.1.5.2. Receiver Transmitter Task 6-28-1								-	-	-	-
A5.10.6.1.5.3. Antenna Task 6-51-1								-	-	-	-
A5.10.6.2. SATCOM AN/ASC-19 TR: 1B-52H-2-24GA-1											
A5.10.6.2.1. Functional Theory of Operation TR: 1B-52H-2-24GA-1								B	B	-	-
A5.10.6.2.2. Perform Operational Checkout TR:1B-52H-2-24JG-5											
A5.10.6.2.2.1. Power Off Check Task 6-3-1								2b/b	-	-	-
A5.10.6.2.2.2. Operational Checkout Task 6-10A-1	*							-	-	-	-
A5.10.6.2.3. Fault Isolation TR: 1B-52H-2-24MS-4								2b/b	-	-	-
A5.10.6.2.4. Remove/Install TR: 1B-52H-2-24JG-5											
A5.10.6.2.4.1. Teleprinter Task 6-22-1								-	-	-	-
A5.10.6.2.4.2. Modem Task 6-36-1								-	-	-	-
A5.10.6.2.4.3. Power Supply Task 6-30-1								-	-	-	-
A5.10.6.2.4.4. Control Indicator Task 6-18-1								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.10.7. IFF Transponders AN/APX-64 ELT/CPI/CDPIR TR: 1B-52H-2-25GA-1											
A5.10.7.1. Functional Theory of Operation TR: 1B-52H-2-25GA-1								A	B	-	-
A5.10.7.2. Perform Operational Checkout TR: 1B-52H-2-25JG-3, Task 7-5-1								2b	-	-	-
A5.10.7.3. Fault Isolation TR: 1B-52H-2-25MS-1								b	-	-	-
A5.10.7.4. Remove/Install TR: 1B-52H-2-25JG-3											
A5.10.7.4.1. Control Panel Task 7-23-1								-	-	-	-
A5.10.7.4.2. Antenna Switching Unit Task 7-14-1								-	-	-	-
A5.10.7.4.3. Antenna Task 7-19-1								-	-	-	-
A5.10.7.4.4 Transponder Test Set Task 7-21-1								-	-	-	-
A5.10.7.4.5. Receiver Transmitter Task 7-12-1								-	-	-	-
A5.10.8. IFF Mode IV Computers Kit-1C TR:1B-52H-2-25GA-1											
A5.10.8.1. Functional Theory of Operation TR: 1B-52H-2-25GA-1								B	B	-	-
A5.10.8.2. Perform Operation Checkout TR: 1B-52H-2-25JG-3, Task 7-5-1								2b	-	-	-
A5.10.8.3. Fault Isolation TR: 1B-52H-2-25MS-4								-	-	-	-
A5.10.8.4. Remove/Install Mode IV Computer TR: 1B-52H-2-25JG-3 Task 7-16-1								-	-	-	-
A5.10.9. Miniature Receive Terminal (MRT) TR: 1B-52H-2-24GA-1											
A5.10.9.1. Functional Theory of Operation								-	-	-	-
A5.10.9.2. Perform Operational Checkout TR: 1B-52H-2-24JG-3 Task 3-6-1, 3-6-2								-	-	-	-
A5.10.9.3. Fault Isolation								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.10.9.4. Remove/Install TR: 1B-52H-2-24JG-3											
A5.10.9.4.1. Radio Receiver Task 3-15, 3-16								-	-	-	-
A5.10.9.4.2. Transfer Module Task 3-9, 3-10								-	-	-	-
A5.10.9.4.3. Control Indicator Task 3-11, 3-12								-	-	-	-
A5.10.9.4.4. ADP Printer Task 3-13, 3-14								-	-	-	-
A5.10.9.4.5. TE Antenna Task 3-17, 3-18								-	-	-	-
A5.10.9.4.6. TM Antenna Task 3-19, 3-20								-	-	-	-
A5.11. ANCILLARY SYSTEMS AND TIE-INS (OAS)											
A5.11.1. Functional Theory of Operation TR: TOs 1B-52H-2-34GA (Series)								B	B	-	-
A5.11.2. Perform Operational Checkout TR: TOs 1B-52H-2-34JG-3											
A5.11.2.1. GMCP power application and turn-on for EVS Interface Unit (EIU) and Armament Interface Unit (AIU) (Task 4-5-1)								2b	-	-	-
A5.11.2.2. EIU or AIU (Task 4-5-2)								2b	-	-	-
A5.11.2.3. GMCP Shutdown for EIU and AIU (Task 4-5-3)								2b	-	-	-
A5.11.2.4. FCP (Flight Computer Program) power application and turn-on (Task 4-5-5)								-	-	-	-
A5.11.2.5. OAS true airspeed and attitude (Task 4-5-6)		*						-	-	-	-
A5.11.2.6. FCI (Flight Command Indicator) (Task 4-5-7)								-	-	-	-
A5.11.2.7. AIU/Tail Warning System Interface (Task 4-5-8)								-	-	-	-
A5.11.2.8. FCP shutdown (Task 4-5-9)								-	-	-	-
A5.11.3. Remove/Install											
A5.11.3.1. EVS Interface Unit (Tasks 4-8, 4-9) TR: TOs 1B-52H-2-34JG-3								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.11.3.2. Armament Interface Unit (Tasks 4-10, 4-11) TR: TOs 1B-52H-2-34JG-3	*							-	-	-	-
A5.12. ACR BORESIGHT TEST SET TR: TO 33D5-12-75-1											
A5.12.1. Antenna Telescope Assembly											
A5.12.1.1. Calibrate/Align								-	-	-	-
A5.12.1.2. Service								-	-	-	-
A5.12.1.3. Isolate Malfunctions								-	-	-	-
A5.12.1.4. Repair								-	-	-	-
A5.12.1.5. Inspect								-	-	-	-
A5.12.2. Antenna Telescope Assembly RF pattern											
A5.12.2.1. Calibrate/Align								-	-	-	-
A5.12.2.2. Service								-	-	-	-
A5.12.2.3. Isolate malfunctions								-	-	-	-
A5.12.2.4. Repair								-	-	-	-
A5.12.2.5. Inspect								-	-	-	-
A5.13. FIELD SHOP TEST SET MAINTENANCE											
A5.13.1. Radar Test Set (RTS), AN/APM-440, test set maintenance TR: TOs 33D7-44-253-1, -2											
A5.13.1.1. Perform fault data retrieval procedures								-	-	-	-
A5.13.1.2. Maintain tester and peculiar TRUs											
A5.13.1.2.1. Perform operational checkout								-	-	-	-
A5.13.1.2.2. Perform testing procedures of RTS unique equipment								-	-	-	-
A5.13.1.3. Align and adjust											
A5.13.1.3.1. Adust Microwave power supply								-	-	-	-
A5.13.1.3.2. Adjust Radar pressurizing test set limits								-	-	-	-
A5.13.1.3.3. Adjust Waveguide phase shifter								-	-	-	-
A5.13.1.3.4. RFSP heading error potentiometer checkout								-	-	-	-
A5.13.1.3.5. Phase comparator test								-	-	-	-
A5.13.1.4. Lubricate and service dehydrator								-	-	-	-
A5.13.1.5. Clean								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.13.1.6. Inspect								-	-	-	-
A5.13.1.7. Isolate Malfunctions								-	-	-	-
A5.13.1.8. Repair								-	-	-	-
A5.13.1.9. Remove and replace TRUs								-	-	-	-
A5.13.2. Radar Test Set (RTS), AN/APM-440, LRU maintenance TR: TOs 33D7-44-253-1, -2											
A5.13.2.1. DEU TR: TO 11B10-7-7-2											
A5.13.2.1.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.1.2. Clean								-	-	-	-
A5.13.2.1.3. Inspect								-	-	-	-
A5.13.2.2. IKB TR: TO 11B-10-7-8-2											
A5.13.2.2.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.2.2. Clean								-	-	-	-
A5.13.2.2.3. Inspect								-	-	-	-
A5.13.2.3. DTUC TR: TO 11B-10-78-2											
A5.13.2.3.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.3.2. Clean								-	-	-	-
A5.13.2.3.3. Inspect								-	-	-	-
A5.13.2.4. DTUCM TR: TO 11B10-25-2-2											
A5.13.2.4.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.4.2. Clean								-	-	-	-
A5.13.2.4.3. Inspect								-	-	-	-
A5.13.2.5. DTCU TR: TO 11B10-25-2-2											
A5.13.2.5.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.5.2. Clean								-	-	-	-
A5.13.2.5.3. Inspect								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.13.2.6. CCP TR: TO 11B12-10-9-2											
A5.13.2.6.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.6.2. Isolate malfunctions								-	-	-	-
A5.13.2.6.3. Repair								-	-	-	-
A5.13.2.6.4. Inspect								-	-	-	-
A5.13.2.6.5. Perform boarding resistance test								-	-	-	-
A5.13.2.7. RPP TR: TO 11B12-13-14-2											
A5.13.2.7.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.7.2. Inspect								-	-	-	-
A5.13.2.8. RNMP TR: TO 11B12-29-3-2											
A5.13.2.8.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.8.2. Inspect								-	-	-	-
A5.13.2.9. PCP TR: TO 11B12-30-2-2											
A5.13.2.9.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.9.2. Inspect								-	-	-	-
A5.13.2.10. RIU TR: TO11B13-4-3-2											
A5.13.2.10.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.10.2. Clean								-	-	-	-
A5.13.2.10.3. Inspect								-	-	-	-
A5.13.2.11. CDIU TR: TO 11B13-4-6-2											
A5.13.2.11.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.11.2. Clean								-	-	-	-
A5.13.2.11.3. Inspect								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.13.2.12. RSC TR: TO 11B13-4-7-2											
A5.13.2.12.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.12.2. Clean								-	-	-	-
A5.13.2.12.3. Inspect								-	-	-	-
A5.13.2.13. Radar Processor TR: TO 11B13-4-12-2											
A5.13.2.13.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.13.2. Clean								-	-	-	-
A5.13.2.13.3. Inspect								-	-	-	-
A5.13.2.14. Display Generator TR: TO 11B13-4-13-2											
A5.13.2.14.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.14.2. Clean								-	-	-	-
A5.13.2.14.3. Inspect								-	-	-	-
A5.13.2.15. MFD TR: TO 11B21-5-4-2											
A5.13.2.15.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.15.2. Clean								-	-	-	-
A5.13.2.15.3. Inspect								-	-	-	-
A5.13.2.16. Antenna Position Programmer (APP) TR: TO 11B47-12-4-2											
A5.13.2.16.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.16.2. Clean								-	-	-	-
A5.13.2.16.3. Inspect								-	-	-	-
A5.13.2.17. ACU TR: TO 11B47-12-4-2											
A5.13.2.17.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.17.2. Clean								-	-	-	-
A5.13.2.17.3. Inspect								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.13.2.18. FCI TR: TO 11B31-5-2-2 (Section 6)											
A5.13.2.18.1. Perform LRU performance/confidence checks								-	-	-	-
A5.13.2.18.2. Align/adjust								-	-	-	-
A5.13.2.19. Radar Control Panel (RCTP) TR: TO 11B12-29-4-12											
A5.13.2.19.1. Perform LRU functional/detailed checkouts								-	-	-	-
A5.13.2.19.2. Clean								-	-	-	-
A5.13.2.19.3. Inspect								-	-	-	-
A5.13.2.20. Terrain Display Control Panel (TDCP) TR: TO 11B12-29-6-2											
A5.13.2.20.1. Perform LRU functional/detailed checkouts								-	-	-	-
A5.13.2.20.2. Clean								-	-	-	-
A5.13.2.21. Remote Control Unit (RCU) Operational Checkout TR: TO 1B-52H-2-41, 12S5-4-53-2											
A5.13.2.21.1. Perform LRU operational checkout								-	-	-	-
A5.13.2.21.2. Clean								-	-	-	-
A5.13.2.21.3. Inspect								-	-	-	-
A5.13.2.22. RTM TR: TOs 11B34-2-9-1, -2, -12											
A5.13.2.22.1. Perform confidence test								-	-	-	-
A5.13.2.22.2. Perform operational test								-	-	-	-
A5.13.2.22.3. Perform functional test											
A5.13.2.22.3.1. BITE test								-	-	-	-
A5.13.2.22.3.2. Mode logic test								-	-	-	-
A5.13.2.22.3.3. Timing test								-	-	-	-
A5.13.2.22.3.4. RF tuning test								-	-	-	-
A5.13.2.22.3.5. Frequency bit test								-	-	-	-
A5.13.2.22.3.6. RF pulse width test								-	-	-	-
A5.13.2.22.3.7. Sensitivity test								-	-	-	-
A5.13.2.22.3.8. Trigger delay test/alignment								-	-	-	-
A5.13.2.22.3.9. TA accuracy test								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.13.2.22.3.10. GM/MRI/STC test								-	-	-	-
A5.13.2.22.3.11. ALQ-117 blanking test								-	-	-	-
A5.13.2.22.3.12. Special functions test								-	-	-	-
A5.13.2.22.3.13. Pressure test								-	-	-	-
A5.13.2.23.4. Perform Fault Isolation (FI) test/alignments											
A5.13.2.23.4.1. Mode Logic FI test								-	-	-	-
A5.13.2.23.4.2. Crystal current FI test/alignment								-	-	-	-
A5.13.2.23.4.3. TR recovery FI test								-	-	-	-
A5.13.2.23.4.4. AFC alignment								-	-	-	-
A5.13.2.23.4.5. AFC acquisition FI test								-	-	-	-
A5.13.2.23.4.6. RF power FI test								-	-	-	-
A5.13.2.23.4.7. Amplitude alignment								-	-	-	-
A5.13.2.23.4.8. Phase alignment								-	-	-	-
A5.13.2.23.5. Isolate malfunctions								-	-	-	-
A5.13.2.23.6. Repair								-	-	-	-
A5.13.2.23.7. Clean								-	-	-	-
A5.13.2.23.8. Inspect								-	-	-	-
A5.13.2.24. Radar antenna TR: TO 11B46-6-5-2											
A5.13.2.24.1. Perform operational test								-	-	-	-
A5.13.2.24.2. Perform functional test											
A5.13.2.24.2.1. Mechanical boresight/leveling test								-	-	-	-
A5.13.2.24.2.2. Azimuth accuracy test/alignment								-	-	-	-
A5.13.2.24.2.3. Tilt accuracy test/alignment								-	-	-	-
A5.13.2.24.2.4. Tilt dynamic test								-	-	-	-
A5.13.2.24.2.5. Pressure test								-	-	-	-
A5.13.2.24.3. Isolate malfunctions								-	-	-	-
A5.13.2.24.4. Repair								-	-	-	-
A5.13.2.24.5. Clean								-	-	-	-
A5.13.2.24.6. Inspect								-	-	-	-
A5.13.2.24.7. Perform bonding resistance test								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.13.3. Transmitter/Modulator Assembly Test Set (TMATS), AN/ASM-661, test set maintenance TR: TO 33D7-29-59-1											
A5.13.3.1. Perform operational checkout								-	-	-	-
A5.13.3.2. Align								-	-	-	-
A5.13.3.3. Service								-	-	-	-
A5.13.3.4. Clean								-	-	-	-
A5.13.3.5. Inspect								-	-	-	-
A5.13.3.6. Isolate malfunctions								-	-	-	-
A5.13.3.7. Repair								-	-	-	-
A5.13.3.8. Remove and replace TRUs								-	-	-	-
A5.13.4. Transmitter/Modulator Assembly Test Set (TMATS), AN/ASM-661, T/M assembly maintenance TR: TO 11B24-3-5-2, 11B34-2-9-2											
A5.13.4.1. Perform functional checkout								-	-	-	-
A5.13.4.2. Perform detailed checkout								-	-	-	-
A5.13.4.3. Isolate malfunctions								-	-	-	-
A5.13.4.4. Repair								-	-	-	-
A5.13.4.5. Clean								-	-	-	-
A5.13.4.6. Inspect								-	-	-	-
A5.13.5. STV camera and FLIR sensor test set, AN/ASM-470, test set maintenance TR: TOs33D7-44-201-1, -2											
A5.13.5.1. Perform normal operational checkout								-	-	-	-
A5.13.5.2. Perform complete operational checkout								-	-	-	-
A5.13.6. STV camera and FLIR sensor test set, AN/ASM-470, LRU maintenance											
A5.13.6.1. STV camera maintenance TR: TO 12S6-4-1-102								-	-	-	-
A5.13.6.1.1. Perform checkouts											
A5.13.6.1.1.1. Operational checkouts								-	-	-	-
A5.13.6.1.1.2. Camera head tilt								-	-	-	-
A5.13.6.1.1.3. Elevation drive test								-	-	-	-
A5.13.6.1.1.4. Azimuth drive test								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.13.6.1.2. Align/adjust											
A5.13.6.1.2.1. HVPS input voltage checks								-	-	-	-
A5.13.6.1.2.2. HVPS output voltage checks/ adjustments								-	-	-	-
A5.13.6.1.2.3. HVPS gated output check								-	-	-	-
A5.13.6.1.2.4. HVPS interface voltage checks								-	-	-	-
A5.13.6.1.2.5. Camera assembly								-	-	-	-
A5.13.6.1.2.6. Fiducial marks								-	-	-	-
A5.13.6.1.2.7. G1 voltage								-	-	-	-
A5.13.6.1.2.8. Boresight								-	-	-	-
A5.13.6.1.3. Clean mirror								-	-	-	-
A5.13.6.1.4. Lubricate								-	-	-	-
A5.13.6.1.5. Purge								-	-	-	-
A5.13.6.1.6. Isolate malfunctions								-	-	-	-
A5.13.6.1.7. Repair								-	-	-	-
A5.13.6.1.8. Clean								-	-	-	-
A5.13.6.1.9. Disassemble								-	-	-	-
A5.13.6.1.10. Assemble								-	-	-	-
A5.13.6.2. Perform confidence checks for TR: TO 12S6-4-1-102											
A5.13.6.2.1. Camera electronics								-	-	-	-
A5.13.6.2.2. STV control panel								-	-	-	-
A5.13.6.3. Perform abbreviated operational check FLIR control panel TR: TO 12S10-4-6-2								-	-	-	-
A5.13.6.4. Perform functional check VDU TR: TO 11B31-3-4-2								-	-	-	-
A5.13.6.5. Turret drive test set, turret drive motor TR: TOs 11B1-112-, 11B1-113											
A5.13.6.5.1. Perform drive unit checkout											
A5.13.6.5.1.1. Preliminary procedure								-	-	-	-
A5.13.6.5.1.2. Circuit checkout								-	-	-	-
A5.13.6.5.1.3. Free run checkout								-	-	-	-
A5.13.6.5.1.4. Stall checkout								-	-	-	-
A5.13.6.5.1.5. Transducer checkout								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note 1)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A5.13.6.5.2. Isolate malfunctions								-	-	-	-
A5.13.6.5.3. Repair								-	-	-	-
A5.13.6.5.4. Clean								-	-	-	-
A5.13.6.5.5. Inspect								-	-	-	-
A5.14. OPERATE TEST EQUIPMENT											
A5.14.1. Pulse generator TR: TOs 33A1-8-875-1, -886-1								-	-	-	-
A.5.14.2. Electrostatic Voltmeter TR: TO 12S6-4-1-102								-	-	-	-
A5.14.3. Antenna Attitude Measuring Set TR: TOs 33D5-12-75-1, 33D5-15-5-1-1								-	-	-	-
A5.14.4. Power Meter TR: TO 33A1-7-205-1								-	-	-	-
A5.14.5. Photometers TR: TO 33D10-16-6-1								-	-	-	-
A5.14.6. Radar Test Set AN/UPM-145(A) TR: TOs 33D7-44-225-1-, 33D7-44-225-1-1	*							1a	-	-	-
A5.14.7. Test Pattern Projector TR: TOs 33D7-44-201-1, -2								-	-	-	-
A5.14.8. Flash Protection Tester TR: TOs 33D7-44-201-1, -2								-	-	-	-
A5.14.9. Nitrogen Servicing Unit TR: TO 35D3-6-35-1								-	-	-	-
A5.14.10. Bonding Meter TR: TO 33A1-12-1124-1								-	-	-	-
A5.14.11. AVTR Test Signal Generator TR: TO 12S6-2AXQ-12								-	-	-	-
A5.14.12. RP/DG Tester TR: 1B-52H-2-44JG-4								-	-	-	-
A5.14.13. RTM Breakout Box TR: 1B-52H-2-44JG-1		*						-	-	-	-
A5.14.14. IFF Transponder Test Set AN/APM-424 TR: 33DA123-13-1								2b	-	-	-
A5.14.15. TACAN Test Set TR: 33DR-8-375-1								-	-	-	-
A5.14.16. ILS Test Set TR: 33A1-3-504-1								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
ATTACHMENT 6 NOTE 1: This attachment identifies the Air Force standardized STS Electronic Fundamentals and applications STS entries. NOTE 2: Only those items in column 4A that have proficiency level codes are trained in the Principles portion of the course. NOTE 3: Users may annotate additional devices or circuits not identified by this attachment that are specific to their AFSC IAW AFI 36-2201. NOTE 4: All course requirements are trained in the 3-level resident wartime course.											
A6.1. BASIC TERMS TR: TOs 31-1-141-2, -5											
A6.1.1. Metric Notation								B	-	-	-
A6.1.2. Direct Current (DC) terms								B	-	-	-
A6.1.3. Alternating Current (AC) terms								B	-	-	-
A6.2. BASIC CIRCUITS TR: TOs 31-1-141-2, -5											
A6.2.1. Theory of Operation								B	-	-	-
A6.2.2. Troubleshoot Circuits								2b	-	-	-
A6.3. BASIC CIRCUIT CALCULATIONS TR: TO 31-1-141-5											
A6.3.1. DC								B	-	-	-
A6.3.2. AC								B	-	-	-
A6.4. RESISTORS TR: TOs 31-1-141-2, -15											
A6.4.1. Theory of Operation								B	-	-	-
A6.4.2. Color code								A	-	-	-
A6.4.3. Isolate faulty resistors								-	-	-	-
A6.5. RELAYS TR: TOs 31-1-141-2, -3											
A6.5.1. Relay Theory of Operation								C	-	-	-
A6.5.2. Isolate faulty relays								2b	-	-	-
A6.6. INDUCTORS TR: TOs 31-1-141-2. -15											
A6.6.1. Theory of Operation								B	-	-	-
A6.6.2. Isolate faulty inductors								-	-	-	-
A6.6.3. Calculations								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A 3 Skill Level	B 5 Skill Level	C 7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A6.7. CAPACITORS TR: TOs 31-1-141-2, -5, -15											
A6.7.1. Theory of Operation								B	-	-	-
A6.7.2. Isolate faulty capacitors								-	-	-	-
A6.7.3. Calculations								-	-	-	-
A6.7.4. Color code								-	-	-	-
A6.8. TRANSFORMERS TR: TOs 31-1-141-2, -5, -15											
A6.8.1. Theory of Operation								B	-	-	-
A6.8.2. Isolate faulty transformers								2b	-	-	-
A6.9. THREE PHASE TRANSFORMERS TR: TOs 31-1-141-2, -15											
A6.9.1. Theory of Operation								B	-	-	-
A6.9.2. Isolate faulty three phase transformers								-	-	-	-
A6.10. DC MOTORS TR: TOs 31-1-141-2, -9											
A6.10.1. Theory of Operation								B	-	-	-
A6.10.2. Troubleshoot DC motors								-	-	-	-
A6.11. AC MOTORS TR: TOs 31-1-141-2, -9											
A6.11.1. Theory of Operation								B	-	-	-
A6.11.2. Trouble shoot AC motors								-	-	-	-
A6.12. DC GENERATORS TR: TOs 31-1-141-2, -9, -13											
A6.12.1. Theory of Operation								B	-	-	-
A6.12.2. Troubleshoot DC generators								-	-	-	-
A6.13. AC GENERATORS TR: TOs 31-1-141-2, -9, -13											
A6.13.1. Theory of Operation								B	-	-	-
A6.13.2. Troubleshoot AC generators								-	-	-	-
A6.14. SYNCHRO/SERVOS TR: TOs 31-1-141-2, -9											
A6.14.1. Theory of Operation								B	-	-	-
A6.14.2. Troubleshoot synchro/servos								-	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Crse	5 Skill Level (1) CDC	7 Skill Level (1) Crse	(2) CDC
*A.6.15. TRANSDUCERS TR: TOs 31-1-141-3, -14											
A6.15.1. Theory of Operation								B	-	-	-
A6.15.2. Isolate faulty transducers								-	-	-	-
A6.16. SOLID STATE DIODES TR: TOs 31-1-141-4, -15											
A6.16.1. Theory of Operation								B	-	-	-
A6.16.2. Isolate faulty solid state diodes								2b	-	-	-
A6.16.3. Specifications								-	-	-	-
A6.16.4. Color code								-	-	-	-
A6.17. BIPOLAR JUNCTION TRANSISTORS TR: TO 31-1-141-4											
A6.17.1. Theory of Operation								B	-	-	-
A6.17.2. Isolate faulty transistors								-	-	-	-
A6.17.3. Specifications								-	-	-	-
A6.18. INTEGRATED CIRCUITS TR; TO 31-1-141-4											
A6.18.1. Familiarization								B	-	-	-
A6.18.2. Isolate faulty integrated circuits								2b	-	-	-
A6.18.3. Specifications								-	-	-	-
A6.19. SOLID STATE SPECIAL PURPOSE DEVICES TR: TO 31-1-141-4											
A6.19.1. Theory of Operation								B	-	-	-
A6.19.2. Silicon Controlled Rectifier (SCR)								B	-	-	-
A6.19.3. Zener diode								B	-	-	-
A6.19.4. Tunnel diode								B	-	-	-
A6.19.5. Light Emitting Diode (LED)								B	-	-	-
A6.19.6. Liquid Crystal Diode (LCD)								B	-	-	-
A6.19.7. Unijunction Transistor (UJT)								B	-	-	-
A6.19.8. Junction Field Effect Transistor (JFET)								B	-	-	-
A6.19.9. Metal Oxide Semi-Conductor Field Effect Transistor (MOSFET)								B	-	-	-
A6.19.10. Isolate faulty special purpose devices								2b	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Crse	5 Skill Level (1) CDC	7 Skill Level (1) Crse	(2) CDC
A6.20. CATHODE RAY TUBES (CRT) TR: TOs 31-1-141-1, -3											
A6.20.1. Theory of Operation								B	-	-	-
A6.20.2. Isolate faulty CRTs								-	-	-	-
A6.21. SOLDER/DESOLDER TR: TOs 00-25-234, 1-1A-14, 31-1-141-15											
A6.21.1. Terminal connections								2b	-	-	-
A6.21.2. Printed Circuit (PC) boards								2b	-	-	-
A6.21.3. Multipin connectors								2b	-	-	-
A6.21.4. Coaxial connectors								2b	-	-	-
A6.22. ASSEMBLE/DISASSEMBLE SOLDERLESS CONNECTORS TR: TOs 1-1A-14, 31-1-141-15											
A6.22.1. Crimp connections	*							(3c)	-	-	-
A6.22.2. Coaxial connections	*							(3c)	-	-	-
A6.22.3. Multipin connections	*							(3c)	-	-	-
A6.23. USE TEST EQUIPMENT TR: TOs 31-1-141-1, -7, -8, -9, -10											
A6.23.1. Analog multimeter								2b	-	-	-
A6.23.2. Oscilloscope								2b	-	-	-
A6.23.3. Signal Generator								-	-	-	-
A6.23.4. Frequency counter								-	-	-	-
A6.23.5. Spectrum Analyzer								-	-	-	-
A6.23.6. Field Strength Tester								-	-	-	-
A6.23.7. Digital multimeter	*							(3c)	-	-	-
A6.23.8. Digital logic probe								-	-	-	-
A6.23.9. Capacitor tester								-	-	-	-
A6.23.10. Capacitor substitution box								-	-	-	-
A6.23.11. Logic current tracer								-	-	-	-
A6.23.12. Logic analyzer								-	-	-	-
A6.23.13. Signature analyzer								-	-	-	-
A6.23.14. Time Domain Reflectometer								2b	-	-	-
A6.23.15. Serial Bus Analyzer								(3c)	-	-	-
A6.23.16. Bonding Meter								2b	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Crse	5 Skill Level (1) CDC	7 Skill Level (1) Crse	(2) CDC
A6.24. TRANSISTOR AMPLFIER CIRCUITS TR: TOs 31-1-141-1, -4											
A6.24.1. Theory of Operation											
A6.24.1.1. Amplifier circuits								B	-	-	-
A6.24.1.2. Stabilization circuits								-	-	-	-
A6.24.1.3. Coupling circuits								-	-	-	-
A6.24.1.4. Troubleshoot circuits								-	-	-	-
A6.25. OPERATIONAL AMPLIFIERS (OP AMPS) TR: TO 31-1-141-4											
A6.25.1. Theory of Operation								B	-	-	-
A6.25.2. Isolate faulty operational amplifiers								-	-	-	-
A6.26. POWER SUPPLY CIRCUITS TR: TOs 31-1-141-3, -4, -9, -15											
A6.26.1. Theory of Operation											
A6.26.1.1. Rectifiers								B	-	-	-
A6.26.1.2. Filters								B	-	-	-
A6.26.2. Troubleshoot circuits								-	-	-	-
A6.27. VOLTAGE REGULATORS TR: TOs 31-1-141-3, -4											
A6.27.1. Theory of Operation								B	-	-	-
A6.27.2. Troubleshoot circuits								-	-	-	-
A6.28. RESISTIVE/CAPACITIVE/INDUCTIVE (RCL) CIRCUITS TR: TOs 31-1-141-2, -5											
A6.28.1. Basic operation								B	-	-	-
A6.28.2. Resonant operation								B	-	-	-
A6.28.3. Troubleshoot circuits								-	-	-	-
A6.29. FREQUENCY SENSITIVE FILTERS TR: TO 31-1-141-2											
A6.29.1. Theory of Operation								B	-	-	-
A6.29.2. Troubleshoot circuits								-	-	-	-
A6.29.3. Calculations								B	-	-	-
A6.30. WAVE GENERATION CIRCUITS TR: TOs 31-1-141-3, -4, -10											
A6.30.1. Theory of Operation											
A6.30.1.1. Oscillators								B	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Crse	5 Skill Level (1) CDC	7 Skill Level (1) Crse	(2) CDC
A6.30.1.2. Multivibrators								B	-	-	-
A6.30.1.3. Waveshaping circuits								B	-	-	-
A6.30.2. Troubleshoot circuits								-	-	-	-
A6.31. LIMITER CIRCUITS TR: TO 31-1-141-4											
A6.31.1. Theory of Operation											
A6.31.1.1. Diode								B	-	-	-
A6.31.1.2. Zener diode								B	-	-	-
A6.31.1.3. Transistor								B	-	-	-
A6.31.2. Troubleshoot circuits								-	-	-	-
A6.32. CLAMPER CIRCUITS											
A6.32.1. Theory of Operation								-	-	-	-
A6.32.2. Troubleshoot circuits								-	-	-	-
A6.33. DIGITAL NUMBERING SYSTEMS TR: TO 31-1-141-5											
A6.33.1. Conversion											
A6.33.1.1. Binary								B	-	-	-
A6.33.1.2. Octal								B	-	-	-
A6.33.1.3. Hexadecimal								B	-	-	-
A6.33.2. Math operations											
A6.33.2.1. Binary								B	-	-	-
A6.33.2.2. Octal								B	-	-	-
A6.33.2.3. Hexadecimal								B	-	-	-
A6.33.3. Binary code systems								B	-	-	-
A6.34. DIGITAL LOGIC FUNCTIONS TR; TOs 31-1-141-4, -9											
A6.34.1. Theory of Operation											
A6.34.1.1. Main Logic Gates								B	-	-	-
A6.34.1.2. Flip-Flops								B	-	-	-
A6.34.2. Troubleshoot circuits								2b	-	-	-
A6.34.3. Logic families											
A6.34.3.1. Transistor to Transistor Logic (TTL)								B	-	-	-
A6.34.3.2. Complementary Metal Oxide Semi-Conductor (CMOS)								B	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Crse	5 Skill Level (1) CDC	7 Skill Level (1) Crse	(2) CDC
A6.35. BOOLEAN EQUATIONS TR: TO 31-1-141-5											
A6.35.1. Diagram to equation								B	-	-	-
A6.35.2. Equation to diagram								B	-	-	-
A6.35.3. Simplify expressions								-	-	-	-
A6.36. COMPUTERS TR: TOs 31-1-141-6C, -9											
A6.36.1. Operation principles								B	-	-	-
A6.36.2. Load programs								-	-	-	-
A6.36.3. Write and debug programs								-	-	-	-
A6.36.4. Isolate faulty major computer units								-	-	-	-
A6.36.5. Troubleshoot computer subassemblies or circuits								-	-	-	-
A6.36.6. Types of memories								B	-	-	-
A6.36.7. Peripheral devices								B	-	-	-
A6.36.8. Programming languages								-	-	-	-
A6.37. MICROPROCESSOR CONTROLLED SYSTEMS TR: TOs 31-1-141-6C, -9											
A6.37.1. Theory of Operation											
A6.37.1.1. Basic								B	-	-	-
A6.37.1.2. Universal								B	-	-	-
A6.37.1.3. 8085 Specific								-	-	-	-
A6.37.2. Isolate faulty microprocessors								-	-	-	-
A6.38. LOGIC CIRCUITS TR: TOs 31-1-141-3, -5, -9, -13											
A6.38.1. Theory of Operation											
A6.38.1.1. Counters								B	-	-	-
A6.38.1.2. Registers								B	-	-	-
A6.38.1.3. Combination logic circuits								B	-	-	-
A6.38.2. Troubleshoot circuits								-	-	-	-
A6.39. DIGITAL TO ANALOG AND ANALOG TO DIGTAL CONVERTERS TR: TO 31-1-141-13											
A6.39.1. Theory of Operation											
A6.39.1.1. Weighted Resistor digital to analog (D/A)								B	-	-	-

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A6.39.1.2. Approximation analog to digital (A/D)								B	-	-	-
A6.39.1.3. Ramp analog to digital (A/D)								B	-	-	-
A6.39.2. Isolate faulty converters								-	-	-	-
A6.40. TRANSMISSION LINES TR: TOs 31-1-141-7, -8, -9, -11											
A6.40.1. Theory of Operation								B	-	-	-
A6.40.2. Perform measurements								2b	-	-	-
A6.40.3. Calculations								-	-	-	-
A6.40.4. Isolate faulty transmission lines								-	-	-	-
A6.41. WAVEGUIDES TR: TOs 31-1-141-9, -11											
A6.41.1. Theory of Operation								B	-	-	-
A6.41.2. Fault Isolation								B	-	-	-
A6.42. MICROWAVE OSCILLATORS AND AMPLIFIERS TR: TOs 31-1-141-3, -10, -11											
A6.42.1. Theory of Operation								B	-	-	-
A6.42.2. Tune or adjust								-	-	-	-
A6.42.3. Isolate faulty microwave oscillators and amplifiers								-	-	-	-
A6.43. RESONANT CAVITIES TR: TOs 31-1-141-3, -9, -11											
A6.43.1. Theory of Operation								B	-	-	-
A6.43.2. Isolate faulty resonant cavities								-	-	-	-
A6.43.3. Tune or adjust								-	-	-	-
A6.44. TRANSMITTERS TR: TOs 31-1-141-4, -9, -13											
A6.44.1. Theory of Operation											
A6.44.1.1. Amplitude Modulation								B	-	-	-
A6.44.1.2. Frequency Modulation								B	-	-	-
A6.44.1.3. Single Side Band								B	-	-	-
A6.44.1.4. Pulse Modulation								B	-	-	-
A6.44.2. Troubleshoot circuits								-	-	-	-
A6. 45. RECEIVERS TR: TOs 31-1-141-4, -9, -13											
A6.45.1. Theory of Operation											

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
	A	B	A	B	C	D	E	A	B	C	
								3 Skill Level	5 Skill Level	7 Skill Level	
	5	7	Training Start	Training Comp	Trainee Initials	Trainer Initials	Certifier Initials	(1) Crse	(1) CDC	(1) Crse	(2) CDC
A6.45.1.1. Amplitude Modulation								B	-	-	-
A6.45.1.2. Frequency Modulation								B	-	-	-
A6.45.1.3. Single Side Band								B	-	-	-
A6.45.1.4. Pulse Modulation								B	-	-	-
A6.45.2. Troubleshoot circuits								-	-	-	-
A6.46. ANTENNAS TR: TO 31-1-141-12											
A6.46.1. Theory of Operation								B	-	-	-
A6.46.2. Perform alignments								-	-	-	-
A6.46.3. Isolate faulty antennas								-	-	-	-
A6.47. PHOTOSENSITIVE DEVICES TR: TOs 31-1-141-3, -4											
A6.47.1. Theory of Operation								B	-	-	-
A6.47.2. Isolate faulty photosensitive devices								-	-	-	-
A6.48. WIRE MAINTENANCE											
A6.48.1. Stripping								B	-	-	-
A6.48.2. Splicing								B	-	-	-
A6.48.3. Bundling								B	-	-	-
A6.48.4. Strain Relief								B	-	-	-
A6.48.5. Routing								B	-	-	-
A6.49. SUPPORT SUBJECTS TR: TOs 31-1-141-1, 00-25-234 AFR 80-23, 700-13											
A6.49.1. Practice safety applicable to electronics								2b	-	-	-
A6.49.2. First aid for electrical shock								B	-	-	-
A6.49.3. Electrostatic discharge (ESD) control								B	-	-	-
A6.49.4. Electromagnetic effects on electronic equipment											
A6.49.4.1. Pulse (EMP)								B	-	-	-
A6.49.4.2. Interference (EMI)								B	-	-	-
A6.49.4.3. Compatibility (EMC)								B	-	-	-

	2. Core Tasks		3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)			
1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	A 5	B 7	A Training Start	B Training Comp	C Trainee Initials	D Trainer Initials	E Certifier Initials	A 3 Skill Level (1) Crse	B 5 Skill Level (1) CDC	C 7 Skill Level (1) Crse	 (2) CDC

Section B - Course Objective List

4. Measurement: Each proficiency coded CFETP task or knowledge item taught at the technical school is measured through the use of an objective. An objective is a written instruction for the student so he or she knows what is expected of them to successfully complete training on each task. Each objective is composed of a condition, behavior, and standard; which states what is expected of the student for each task. The condition is the setting in which the training takes place (i.e. TOs, type of equipment, etc). The behavior is the observable portion of the objective (i.e. perform an operational check). The standard is the level of performance that is measured to ensure the STS proficiency code level is attained. Each objective uses letter code(s) to identify how it is measured. All objectives use the PC code(s), which indicates a progress check is used to measure subject or task knowledge. W indicates a comprehensive written test and is used to measure the subject or task knowledge at the end of a block of instruction. PC/W indicates a subject or task knowledge progress check and a separate measurement of both knowledge and performance elements using a written test.

5. Standard: The standard of written examinations is 70% to 73%, depending on the number of questions on the test. Standards of performance are indicated in the objective and are also indicated on the individual progress check checklist. The checklist is used by the instructor to document each student's progress on each task. Instructor assistance is provided as needed during the progress check, and students may be required to repeat all or part of the behavior until satisfactory performance is attained. Students must satisfactorily complete all PCs prior to taking the written test.

6. Proficiency Level: Review column 4A of the CFETP to determine the proficiency level of a particular task or knowledge item. Review the course objective list to determine which STS item the objective supports. Review the proficiency code key in Part II, Section A of this CFETP for an explanation of the proficiency codes. Most task performance is taught to the '2b' proficiency level which means the students can do most parts of the task, but does need assistance on the hardest parts of the task (partially proficient). The student can also determine step by step procedures for doing the task. For tasks that are taught to the '3c' proficiency level, students can do all parts of the task and only require a spot check on completed work (competent). The student can also identify why and when a task must be done and why each step is needed.

7. Course Objectives: A detailed listing of initial skills or craftsman course objectives may be obtained by submitting a written request to the AETC Training Manager, 365 TRS/TTR, 609 9th Ave., Stop 242, Sheppard AFB TX, 76311-2335.

Section C - Support Material

8. The following list of support materials is not inclusive; however, it covers the most frequently referenced areas. For further information on the following courses, contact the OPR at:

333 TRS/TTCQS
601 D Street
Keesler AFB, MS 39534-2229
DSN 597-5893

362 TRS/TRR
613 10th Ave.
Sheppard AFB, TX 76311-2352
DSN 736-5206

Course Number	Course Title	Developer
*AFQTP 2EXXX-201L	Workcenter Managers Handbook	333 TRS
*AFQTP 2EXXX-201LB	C-E Managers Handbook	333 TRS
*AFQTP 2EXXX-201G	Maintenance Support	333 TRS
*AFQTP 2EXXX-201P	TMDE Management	333 TRS
*AFQTP 2EXXX-201J	Maintenance Training Program	333 TRS

*Courses can be downloaded from 333 TRS home page at: http://qflight.kee.aetc.af.mil

Course Number	Course Title	Developer
**J6ANU00066-038	Air Force Technical Order System General	362 TRS
**J6ANU00066-039	Air Force Technical Order System General	362 TRS

**These courses are Computer Based Training (CBT), and may be requested as any other course and are listed in AFCAT 36-2223 with ordering procedures.

Section D - Training Course Index

9. Purpose. This section of the CFETP identifies training courses available for the Communication/Navigation/Mission Systems Specialty, and shows how the courses are used by each MAJCOM in their career field training programs. For further information on the following courses, contact the 2A5X3X Training Manager at:

365 TRS/TRR
609 9th Ave.,
Sheppard AFB, TX 76311-2335
DSN 736-7899

10. Air Force In-Resident Courses:

Refer to AFCAT 36-2223, USAF Formal Schools Catalog, for information on all courses listed in this index.

COURSE NO.	COURSE TITLE	LOCATION	USER
J3ABR2A533A 002	Communication/Navigation/Mission Systems Apprentice Course	Sheppard AFB	AF, ANG, AFRC
J3ACR2A573 001	Craftsman Avionics Course	Sheppard AFB	AF, ANG, AFRC

11. Extension Course Institute (ECI) Courses:

365 TRS/TTCDC
609 9th Ave., Stop 242
Sheppard AFB, TX 76311-2335
DSN 736-4111

COURSE NO.	COURSE TITLE	USER
CDC 2A55A1	Basic Offensive Avionic Skills	AF
CDC 2A55A2	Offensive Avionics Journeyman (B-1)	AF
CDC 2A55A3	Offensive Avionics Journeyman (B-52)	AF
CDC 2A55A4	Offensive Avionics Journeyman (B-2)	AF
CDC 2A452B	Aircraft Communication/Navigation Systems Journeyman	AF
CDC 2AX7X	Aerospace Maintenance Craftsman	AF

12. Exportable Courses:

For further information on the following exportable courses, contact the OPRs at:

367 TRS/TRSS
6058 Aspen Ave.
Hill AFB, UT 84056-5805
DSN 777-7830/8741

362 TRS
613 10th Ave.
Sheppard AFB, TX 76311-2352
DSN 736-5206

The Hill AFB course catalog can be ordered from DSN 777-0160.

COURSE NO.	COURSE TITLE	OPR	USER
00TVT0000	FOD Prevention (VHS tape)	367 TRS	AF
00TVT0001	Safety and Radio Frequency (RF) Radiation (VHS tape)	367 TRS	AF
00TVT0001V1	Troubleshooting Techniques (ICW)	367 TRS	AF
00TTV0002	Aerospace Ground Equipment Training (ICW)	367 TRS	AF
00TCB0002V1	Multimeter Familiarization (ICW)	367 TRS	AF
00CIV0008	Use and Care of Type III Torque Wrenches (ICW)	367 TRS	AF
00CVT0009	Torque Wrench, Use and Care (VHS tape)	367 TRS	AF
00TVT0011	Cold Weather Indoctrination (VHS tape)	367 TRS	AF
00CVT0012	Manual Acft Snow Removal (VHS tape)	367 TRS	AF
00TVT0017V1	General Aircraft Corrosion Control (VHS tape)	367 TRS	AF
00TIV1000	Aircraft Marshaling (ICW)	367 TRS	AF
01SIV8971V5.1.1	-86 Diesel Power Unit Operation (ICW)	367 TRS	AF
00SIV8972	MA-3D Air Conditioner Operation (ICW)	367 TRS	AF
00TVT0015	Installation of Aircraft Switch Guards	367 TRS	AF
01CIV0016	B-1B Emergency Ground Egress	367 TRS	AF
01CIV0051	B-1B Command Aircraft Systems Training (CAST) General Airplane Information	367 TRS	AF
01CIV0052	B-1B Hazardous Zones	367 TRS	AF
01CIV1001	B-1B Safe for Maintenance	367 TRS	AF
01CIV1615	B-1B Egress System Safety	367 TRS	AF
01JIV0001	B-1B General Electrical Maintenance, part 1	367 TRS	AF
01JIV0002	B-1B General Electrical Maintenance, part 2	367 TRS	AF
01JIV0003	B-1B General Electrical Maintenance, part 3	367 TRS	AF
01JIV0005	B-1B CITS Parameter Monitor Codes (PMC)	367 TRS	AF
01JIV0006	B-1B CITS Maintenance Codes	367 TRS	AF
01JIV0038	B-1B Hardness Critical Procedures (HCP) Check	367 TRS	AF
01JIV1100	B-1B Panel Types, Location, and Construction	367 TRS	AF

01JIV1101	B-1B Panel and Secondary Structure Inspection	367 TRS	AF
01JIV1103	B-1B Forward Equipment Bay (FEB) Panels	367 TRS	AF
01JIV1134	B-1B Fasteners/Related Hardware	367 TRS	AF
01JIV2301	B-1B CAST Aircraft Systems and Power Plant	367 TRS	AF
01JIV4300	B-1B EMUX	367 TRS	AF
01JIV5500	B-1B CAST CITS/EMUX	367 TRS	AF
01JIV5501	B-1B Ground Readiness Tests (GRT)	367 TRS	AF
01SIV1005	B-1B Proximity Switch (Cover/Uncover) Simulated Airborne Conditions	367 TRS	AF
01SIV2400	B-1B Auxiliary Power Unit Operation	367 TRS	AF
52CVT0003	B-52H Emergency Ground Egress	367 TRS	AF
52TVT1202	B-52H Seat Safety	367 TRS	AF
J6AZU2E066 038	Air Force Technical Order (T.O.) System (Gen)	362 TRS	AF
J6AZU2E066 039	Air Force Technical Order (T.O.) System (Gen) (Adv)	362 TRS	AF
J6AZU2E066 058	Air Force Maintenance Data Collection System	362 TRS	AF
J6AZU2E066 059	Air Force Maintenance Data Collection System	362 TRS	AF
J6AZU2E066 061	Air Force Maintenance Data Collection System Operators Course (Intro)	362 TRS	AF
J6AZU2E066 062	Air Force Maintenance Data Collection System Mid Level Maintenance Managers	362 TRS	AF

13. Training Detachment (TD) Courses:

For further information on the TD courses, contact the OPRs at:

372 TRS
912 I Ave. Suite 3
Sheppard AFB, TX 76311-2361
DSN 736-4801

COURSE NO.	COURSE TITLE	OPR	USER
J4AMF/ASF/AST 2A5X3A 007	B-1B Avionics Maintenance (OAS/CEMU Operator Basic) Systems Apprentice	372 TRS	AF, ANG
J4AMF/ASF/AST 2A5X3A 008	B-1B Avionics Maintenance (OAS/CEMU Operator Advanced)	372 TRS	AF, ANG
J4AMF/ASF/AST 2A5X3 000	B-2 Avionics Systems Craftsman (Common Core)	372 TRS	AF
J4AMF/ASF/AST 2A5X3A 000	B-1B Avionic Systems (OAS/RADARS)	372 TRS	AF, ANG
J4AMF/ASF/AST 2A5X3A 004	B-1B Avionics Systems Craftsman (OAS/Computers)	372 TRS	AF, ANG
J4AMF/ASF/AST 2A5X3A 005	B-1B Avionics Systems (OAS/CITS/EMUX)	372 TRS	AF, ANG
J4AMF/ASF/AST 2A5X3B 006	B-2 Avionics Systems Craftsman	372 TRS	AF
J4AMF/ASF/AST 2A6X6 029	B-1B Aircraft E&E Systems Craftsman (Kapton Wire Repair)	372 TRS	AF, ANG
J4AMF/ASF/AST 2A6X6 032	B-2 Aircraft Environmental Systems Craftsman	372 TRS	AF

14. Course Under Development/Revision:

All courses are current and activated.

Section E – MAJCOM Unique Requirements

15. Currently only Air Combat Command has a MAJCOM mandatory course list (MMCL). MAJCOMs change mandatory course requirements occasionally. Up-to-date ACC requirements can be obtained at http://xo.acc.af.mil/xom/XOMM/XOMM.html. After access, click on "training" and then on "MMCL" Refer to the HQ ACC MMCL for additional information. The below requirements are current as of 14 Feb 00.

COURSE NO.	COURSE TITLE	MDS
2A5X3A-000	Offensive Avionics System Craftsman (Radar)	B-1
2A5X3A-004	Offensive Avionics System Craftsman (Computers)	B-1
2A5X3A-005	Offensive Avionics System Craftsman (CITS)	B-1

COURSE NO.	COURSE TITLE	MDS
2A5X3-000	B-2 Avionic Systems Craftsman (Common Core)	B-2
2A5X3A-006	B-2 Avionics System (Offensive Avionics System)	B-2

16. Additional courses available from ACC.

Contact the course OPRs at:

HQ ACC LSG / OL-CA
6058 Aspen
Hill AFB, UT 84056-5805
DSN 777-4278

COURSE NO.	COURSE TITLE	OPR	USER
Y140009	ACC Production Superintendent	HQ ACC/ LSG	ACC
Y140015	ACC Maintenance Instructor	HQ ACC/ LSG	ACC
Y140020	ACC Maintenance Training Management	HQ ACC/ LSG	ACC